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Dr. Yann-Gaël Guéhéneuc

Correspondence language: French

Sex: Male

Date of Birth: 4/25

Canadian Residency Status: Canadian Citizen

Country of Citizenship: France

Contact Information

The primary information is denoted by (*)

Address

Mailing

~~Département de Génie informatique et génie
logiciel
École Polytechnique Montréal
C.P. 6079, succ. Centre-Ville
Montréal Québec H3C 3A7
Canada~~

Primary Affiliation (*)

Computer Science and Software Engineering
Concordia University
1455 de Maisonneuve Boulevard West
Montréal Québec H3G 1M8
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Website

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Protected when completed

Dr. Yann-Gaël Guéhéneuc

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes	Yes

Degrees

2000/6 - 2003/6	Doctorate, Diplôme de doctorat en informatique, Software Engineering, Université de Nantes / École des Mines de Nantes Degree Status: Completed Supervisors: Pierre Cointe, 2000/6 - 2003/6
1997/9 - 1998/10	Master's Equivalent, Diplôme d'études approfondies en informatique, Software Engineering, Université de Nantes Degree Status: Completed
1994/10 - 1998/10	Bachelor's Equivalent, Diplôme d'ingénieur, Software Engineering, École des Mines de Nantes Degree Status: Completed
1990/9 - 1993/7	Diploma, Diplôme de baccalauréat en mathématiques et technique, Mathematics and Technology, Lycée Technologique Livet Degree Status: Completed

Credentials

2008/6	Ingénieur, Ordre des ingénieurs du Québec
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Recognitions

2021/2	IEEE TCSE Most Influential Paper at SANER'21 IEEE Distinction For M. Abbes, F. Khomh, Y.-G. Guéhéneuc, and G. Antoniol ; An Empirical Study of the Impact of Two Antipatterns, Blob and Spaghetti Code, on Program Comprehension ; Proceedings of the 15th IEEE European Conference on Software Maintenance and Reengineering (CSMR'11), pp. 181-190, 2011.
2020/3	Outstanding Reviewer Award for Elsevier IST Elsevier Distinction For my reviews of submitted manuscripts, more than 34 as of 23/10/20

- 2019/8 Excellent Research Award
Japan Information Processing Society
Distinction
For H. Washizaki, Y.-G. Guéhéneuc, and F. Khomh ; ProMeTA: A Taxonomy for Program Metamodels in Program Reverse Engineering ; Springer Empirical Software Engineering (EMSE), pp. 2323-2358, 2018.
- 2019/5 Best Paper Award at MOBILESoft'19
ACM
Distinction
For A. Belkhir, M. Abdellatif, R. Tighilt, N. Moha, Y.-G. Guéhéneuc, and É. Beaudry ; An Observational Study on the State of REST API Uses in Android Mobile Applications ; Proceedings of the 6th IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft), pp. 66-75, 2019.
- 2019/1 IEEE TCSE Most Influential Paper at SANER'19
IEEE
Distinction
For F. Khomh, M. Di Penta, and Y.-G. Guéhéneuc ; An Exploratory Study of the Impact of Code Smells on Software Change-proneness ; Proceedings of the 16th IEEE Working Conference on Reverse Engineering (WCRE'09), pp. 75-84, 2009.
- 2018/12 Best Paper Award at APSEC'18
IEEE
Distinction
For G. Hecht, H. Mili, G. Elboussaidi, A. Boubaker, M. Abdellatif, Y.-G. Guéhéneuc, A. Shatnawi, J. Privat, and N. Moha ; Codifying Hidden Dependencies in Legacy J2EE Applications ; Proceedings of the 25th Asia-Pacific Software Engineering Conference (APSEC'18), pp. 305-314, 2018
- 2018/11 Best Student Paper Award at ICSOC'18
Springer
Distinction
For M. Abdellatif, G. Hecht, H. Mili, G. El Boussaidi, N. Moha, A. Shatnawi, J. Privat, and Y.-G. Guéhéneuc ; State of the Practice in Service Identification for SOA Migration in Industry ; Proceedings of the 16th Springer International on Service-Oriented Computing (ICSOC), pp. 634-650, 2018.
- 2018/9 Most Influential Paper Award at CASCON'18
ACM
Distinction
For G. Antoniol, K. Ayari, M. Di Penta, F. Khomh, and Y.-G. Guéhéneuc ; Is It a Bug or an Enhancement? A Text-based Approach to Classify Change Requests ; Proceedings of the 18th ACM Conference of the Center for Advanced Studies on Collaborative Research (CASCON), pp. 304-318, 2008.
- 2018/1 Most Influential Paper Award at SANER'18
IEEE
Distinction
For F. Khomh and Y.-G. Guéhéneuc ; Do Design Patterns Impact Software Quality Positively? ; Proceedings of the 12th IEEE European Conference on Software Maintenance and Reengineering (CSMR), pp. 274-278, 2008.
- 2014/11 Best Paper Award at SOCA'14
IEEE Computer Society
Distinction
Best Paper Award at SOCA'14

2012/11	Runner-up Best Paper Award at ICSSOC'12 Springer Distinction
2012/9	Best Paper Award at WCRE'12 IEEE Computer Society Distinction
2011/3	Best paper award at CSMR'11 IEEE Computer Society Distinction
2010/9	Best paper award at ERA Track at ICSM'10 IEEE Computer Society Distinction
2010/4	Senior Member IEEE Distinction
2010/3	Best paper award at CSMR'10 IEEE Computer Society Distinction
2006/6	Best paper award at ICPC'06 IEEE Computer Society Distinction
2005/9	Best paper award at ICSM'05 IEEE Computer Society Distinction

User Profile

Researcher Status: Researcher
Engaged in Clinical Research?: No

Research Interests: Developing theories, methods, and tools, to understand, evaluate, and improve the quality of IoT software systems by promoting the use of idioms, design patterns, and architectural patterns from communications protocols to systems-of-systems.

Fields of Application: Communication and Information Technologies

Disciplines Trained In: Computer Engineering and Software Engineering, Industrial Engineering

Areas of Research: Algorithms, Computer Systems, Software Development, Teleinformatics

Research Specialization Keywords: Software development, Software modelling, Program comprehension, Static analyses, Dynamic analyses, Historical analyses, Internet of Things, Service-oriented architecture

Research Disciplines: Computer Engineering and Software Engineering

Employment

2017/8
Full Professor
Department of Computer Science and Software Engineering, Gina Cody School of Engineering and Computer Science, Concordia University
Full-time
Tenure Status: Tenure

2012/6 - 2017/8	Full Professor Département de génie informatique et génie logiciel, École Polytechnique de Montréal Full-time Tenure Status: Tenure
2013/3 - 2014/4	Guest Professor Computer Science, Wonju Campus, Yonsei University, Republic of Korea Full-time Tenure Status: Non Tenure Track
2008/6 - 2012/5	Associate Professor Département de génie informatique et génie logiciel, École Polytechnique de Montréal Full-time Tenure Status: Tenure
2008/5 - 2008/6	Associate Professor Département d'informatique et recherche opérationnelle, Université de Montréal Full-time Tenure Status: Tenure
2003/8 - 2008/5	Assistant Professor Département d'informatique et recherche opérationnelle, Université de Montréal Full-time Tenure Status: Tenure Track
1999/12 - 2001/5	Software Developer Object Technology International, Ottawa, ON, Canada
1998/12 - 2000/4	Invited Researcher School of Computer Science, Carleton University Full-time Tenure Status: Non Tenure Track

Affiliations

The primary affiliation is denoted by (*)

(*) 2017/8 Full Professor, Computer Science and Software Engineering, Concordia University

Leaves of Absence and Impact on Research

2020/3 - 2022/2	Special, Concordia University Main caregiver of my two daughters during the COVID-19 pandemic, 33% work reduction
2017/1 - 2020/12	Special, Concordia University Chronic illness, 20% work reduction

Research Funding History

Awarded [n=8]

2024/5 - 2029/4	Recommending IoT APIs by Studying the Requirements, Features, and Patterns of IoT Framework APIs, Grant
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Funding Sources:

2024/5 - 2029/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - 275,000 (Canadian dollar)
Portion of Funding Received - 55,000 (Canadian dollar)
Funding Competitive?: Yes

2024/1 - 2025/12
Co-investigator

Desjardins Living Lab: Building Retrofit from Design to Implementation towards Prosumer and Grid-support Services, Grant

Funding Sources:

2024/1 - 2025/12 Canada First Research Excellence Fund
Electrification for Resilient Decarbonized Communities - Seed Grants
Total Funding - 250,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Nizar Bouguila; Yann-Gaël Guéhéneuc;

Collaborator : Bernard Bitar; Mayi Kato; Ursula Eicker;

Principal Investigator : Manar Aymari

2024/1 - 2025/12
Principal Investigator

Digital Data Analysis and Modeling Platform for Decarbonizing the Built Environment, Grant

Funding Sources:

2024/1 - 2025/12 Canada First Research Excellence Fund
Electrification for Resilient Decarbonized Communities - Seed Grants
Total Funding - 250,000 (Canadian dollar)
Portion of Funding Received - 100,000
Funding Competitive?: Yes

Co-investigator : Francesco Ciari; Liangzhu Wang; Michaël Kummert; Ursula Eicker;

Principal Investigator : Yann-Gaël Guéhéneuc

2018/5 - 2025/4
Principal Investigator

Empirical Software Engineering for the Internet of Things, Research Chair

Funding Sources:

2018/5 - 2025/4 Canada Research Chairs (CRC)
Tier 1
Total Funding - 1,400,000 (Canadian dollar)
Portion of Funding Received - 630,000
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2024/1 - 2024/12
Principal Investigator

ReAnimate: 2024 Summer School on Retro Gaming History, Critic, and Development, Grant

Funding Sources:

2023/9 - 2024/12 ACM SIGSOFT
Support for Summer/Winter Schools in Software Engineering
Total Funding - 3,000 (United States dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Carl Therrien; Cristiano Politowski; Fabio Petrillo;

Principal Investigator : Yann-Gaël Guéhéneuc

2023/5 - 2024/4

Principal Investigator

Building Multi-language, Multi-system Quality Models using Features and APIs, Grant

Funding Sources:

2023/5 - 2024/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant COVID-19 Extension with Funds
Total Funding - 48,000 (Canadian dollar)
Portion of Funding Received - 48,000
Funding Competitive?: No

Principal Investigator : Yann-Gaël Guéhéneuc

2020/1 - 2023/12

Co-investigator

Systems Analyses and Debugging for Program Comprehension, Grant

Funding Sources:

2020/1 - 2022/12 European Smalltalk User Group
Total Funding - 2,400 (Euro)
Portion of Funding Received - 0 (Canadian dollar)
Funding Renewable?: Yes
Funding Competitive?: Yes

2020/1 - 2022/12 Institut National de Recherche en Informatique et Automatique (INRIA)
Équipe associée
Total Funding - 13,000 (Euro)
Portion of Funding Received - 0 (Canadian dollar)
Funding Renewable?: Yes
Funding Competitive?: Yes

Co-investigator : Christopher Fuhrman; Nicolas Anquetil; Stéphane Ducasse; Yann-Gaël Guéhéneuc

2023/5 - 2023/8

Principal Investigator

Software Engineering Open Data Infrastructure, Scholarship

Funding Sources:

2023/9 - 2025/8 Mathematics of Information Technology and Complex Systems (MITACS)
Globalink Research Award
Total Funding - 6,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Rodrigo Morales;

Principal Investigator : Yann-Gaël Guéhéneuc

Completed [n=42]

2018/5 - 2023/4

Principal Investigator

Building Multi-language, Multi-system Quality Models using Features and APIs, Grant, Operating

Funding Sources:

2018/5 - 2023/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - 240,000 (Canadian dollar)
Portion of Funding Received - 240,000
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2018/5 - 2023/4 Empirical Software Engineering for the Internet of Things, Grant, Infrastructure
Principal Investigator

Funding Sources:

2018/5 - 2019/4 Canada Foundation for Innovation (CFI)
Canada Research Chair Tier 1
Total Funding - 282,135 (Canadian dollar)
Portion of Funding Received - 282,135
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2021/1 - 2023/4 Ensuring Privacy while Reducing Asymmetry in the Customer-Merchant Relationship
Co-investigator (Assurer le respect de la vie privée tout en réduisant l'asymétrie dans la relation client-commerçant in French), Grant

Funding Sources:

2021/1 - 2023/4 Laboratoire de recherches transdisciplinaires sur les écosystèmes informatiques (LATECE)
Projet patrimonial
Total Funding - 32,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Jean Privat; Marc-Olivier Killijian; Sébastien Gambis; Yann-Gaël Guéhéneuc

2020/1 - 2023/4 Interdisciplinary Research Collaboration between Quebec and Mexico to Support the
Principal Investigator Creation, Operation, and Testing of Robust Software for the IoT (Collaboration de recherche interdisciplinaire entre le Québec et le Mexique in French), Grant, Operating

Funding Sources:

2019/5 - 2021/4 Ministère des Relations internationales et de la Francophonie (MRIF)
Groupe de travail Québec-Mexique
Total Funding - 16,000 (Canadian dollar)
Portion of Funding Received - 5,434
Funding Competitive?: Yes

Co-investigator : Carlos Coello Coello; Rodrigo Morales;

Principal Investigator : Yann-Gaël Guéhéneuc

2020/1 - 2022/12 Open Partnership Joint Research, Grant, Operating
Co-investigator Clinical Research Project?: No

Funding Sources:

2020/1 - 2022/12 Japan Society for the Promotion of Science (JSPS)
 Open Partnership Joint Research
 Total Funding - 35,000 (Japanese yen)
 Portion of Funding Received - 0 (Canadian dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

Co-investigator : Yann-Gaël Guéhéneuc;

Principal Investigator : Hironori Washizaki

2020/7 - 2022/7

Principal Investigator

IoT Research: from Modelling to Implementing Smart Cities, Grant, Workshop

Funding Sources:

2020/4 - 2021/4 Concordia University
 Aid to Research-related Events
 Total Funding - 5,000 (Canadian dollar)
 Portion of Funding Received - 1,193
 Funding Competitive?: Yes

Co-investigator : Ursula Eicker;

Principal Investigator : Yann-Gaël Guéhéneuc

2021/5 - 2022/4

Co-investigator

SPAR Lab: A Research Laboratory to Develop and Assess Smart Process Applications,
 Grant, Infrastructure

Funding Sources:

2021/1 - 2022/12 Canada Foundation for Innovation (CFI)
 Innovation Fund
 Total Funding - 1,806,058 (Canadian dollar)
 Portion of Funding Received - 0
 Funding Competitive?: Yes

Co-investigator : Ghizlane El Boussaidi; Halima Elbiaze; Mounir Boukadoum; Naouel
 Moha; Simon Bacon; Wessam Ajib; Yann-Gaël Guéhéneuc;

Principal Investigator : Hafedh Mili; Kim Lavoie

2018/2 - 2021/12

Co-investigator

An Intelligent Mixed-reality Simulation and Training Ecosystem for Extreme Environments,
 Grant, Operating

Funding Sources:

2020/5 - 2023/4 Consortium for Research and Innovation in Aerospace in Québec
 (CRIAQ)
 AUT-1653_TRL4+
 Total Funding - 5,259,495 (Canadian dollar)
 Portion of Funding Received - 15,750
 Funding Competitive?: Yes

Co-investigator : Andréa Lodi; Antoine Legrain; Caroline Aubé; David Meger; David
 Saussié; Giovanni Beltrame; Grégory Dudek; Inna Sharf; Yann-Gaël Guéhéneuc;

Co-knowledge User : Abdo Shabah (Humanitas Solutions); Hermann Brassard (Presagis);
 Martin Rivest (Thalès); Taïf Rahman (Elisen & Associates);

Principal Investigator : Gabriela Nicolescu

2020/6 - 2021/9

Principal Investigator

Verifying and Deploying 5G Cloud Infrastructure for Improved Logistic and Communication
 in Healthcare Facilities Dealing with COVID-19 Patients, Grant, Operating

Funding Sources:

2020/6 - 2022/5 Mathematics of Information Technology and Complex Systems (MITACS)
Accelerate
Total Funding - 120,000 (Canadian dollar)
Portion of Funding Received - 120,000
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc;

Principal Knowledge User : Abdo Shabah (Humanitas Solutions)

2020/9 - 2021/8 Real-time Surrogate Safety Analysis Solution using Lidar Technology Powered by Artificial
Principal Investigator Intelligence, Grant, Operating

Funding Sources:

2020/9 - 2022/8 Mathematics of Information Technology and Complex Systems (MITACS)
Accelerate
Total Funding - 45,000 (Canadian dollar)
Portion of Funding Received - 45,000
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc;

Principal Knowledge User : Asad Lesani (BlueCity Technology)

2018/4 - 2019/12 Empirical Evaluation of Software Development Environments (Évaluation empirique des
Principal Investigator environnements de développement logiciel in French), Grant, Operating

Funding Sources:

2018/4 - 2019/12 Agence Universitaire de la Francophonie (AUF)
Support for Interuniversity Solidarity Projects in the Americas (PRISA)
Total Funding - 15,895 (Canadian dollar)
Portion of Funding Received - 15,244
Funding Competitive?: Yes

Co-investigator : Marcelo Soares Pimenta; Marco Tulio Valente; Regina Motz;

Principal Investigator : Yann-Gaël Guéhéneuc

2017/9 - 2019/8 Startup, Grant, Establishment
Principal Investigator

Funding Sources:

2017/9 - 2019/12 Concordia University
Startup
Total Funding - 75,000 (Canadian dollar)
Portion of Funding Received - 75,000
Funding Competitive?: No

Principal Investigator : Yann-Gaël Guéhéneuc

2018/5 - 2019/4 Applying Machine Learning Techniques to the Identification and Correction of Anomalies
Principal Investigator in Transaction Sale Data, Grant, Operating

Funding Sources:

2018/9 - 2019/8 Mathematics of Information Technology and Complex Systems (MITACS)
Accelerate
Total Funding - 3,000 (Canadian dollar)
Portion of Funding Received - 3,000
Funding Competitive?: Yes

Co-investigator : Foutse Khomh;

Principal Investigator : Yann-Gaël Guéhéneuc;

Principal Knowledge User : Bernd Lehnert (SAP)

2014/5 - 2019/4
Principal Investigator Patterns in Mixed-language Systems, Research Chair
Clinical Research Project?: No

Funding Sources:

2009/5 - 2014/4 Canada Research Chairs (CRC)
Tier 2
Total Funding - 500,000 (Canadian dollar)
Portion of Funding Received - 500,000 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2014/5 - 2018/12
Co-investigator Development of Context-aware Software Reuse Techniques (REUSE), Grant, Operating

Funding Sources:

2014/5 - 2018/8 Ministry of Science, ICT and Future Planning (MSIP)
National Research and Development Project
Total Funding - 30,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Yann-Gaël Guéhéneuc;

Principal Investigator : Young-kwang Nam

2018/5 - 2018/8
Principal Investigator Low Resource Open Source Web Browser, Scholarship

Funding Sources:

2018/5 - 2018/8 Natural Sciences and Engineering Research Council of Canada (NSERC)
Undergraduate Student Research Award (USRA)
Total Funding - 6,000 (Canadian dollar)
Portion of Funding Received - 6,000
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2015/5 - 2018/4
Principal Investigator Service-oriented Architectural Reengineering of Object-oriented Legacy Software (Réingénierie architecturale orientée services de logiciels légataires orientés objet in French), Grant, Operating

Funding Sources:

2015/5 - 2018/4 Fonds de recherche du Québec - Nature et technologies (FRQNT)
 Team Grant
 Total Funding - 144,000 (Canadian dollar)
 Portion of Funding Received - 144,000 (Canadian dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

Co-investigator : Ghizlane El Boussaidi; Hafedh Mili; Naouel Moha;

Principal Investigator : Yann-Gaël Guéhéneuc

2012/5 - 2018/4 Building Practical Software Quality Models, Grant, Operating
 Principal Investigator Clinical Research Project?: No

Funding Sources:

2012/5 - 2017/4 Natural Sciences and Engineering Research Council of Canada
 (NSERC)
 Discovery Grant
 Total Funding - 204,000 (Canadian dollar)
 Portion of Funding Received - 204,000 (Canadian dollar)
 Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2012/5 - 2017/4 ICD Management, Grant, Operating
 Principal Investigator Clinical Research Project?: No

Funding Sources:

2012/5 - 2016/12 Natural Sciences and Engineering Research Council of Canada
 (NSERC)
 Collaborative Research and Development Grant (CRD)
 Total Funding - 132,000 (Canadian dollar)
 Portion of Funding Received - 132,000 (Canadian dollar)
 Funding Competitive?: Yes

Co-investigator : Roger Champagne; Yvan Labiche;

Collaborator : Claire Mangado; Giuliano Antoniol; John Mullins;

Principal Investigator : Yann-Gaël Guéhéneuc;

Principal Knowledge User : Pierre Labrèche (CMC Electronics)

2013/9 - 2016/8 Evaluation of a Tailored Virtual Intervention as an Instrument of Prevention and
 Co-applicant Therapeutic Support to Improve the Health of PLHIV and Reduce Comorbidity Associated
 with HIV, Grant, Operating
 Clinical Research Project?: Yes

Funding Sources:

2013/9 - 2016/8 Canadian Institutes of Health Research (CIHR)
 HIV
 Total Funding - 421,224 (Canadian dollar)
 Portion of Funding Received - 1 (Canadian dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

2013/9 - 2016/4 A Recommendation System for Managing the Configuration of Multi-tier Systems, Grant,
 Co-applicant Operating
 Clinical Research Project?: No

Funding Sources:

2013/9 - 2016/4 Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT)
 Team project
 Total Funding - 126,000 (Canadian dollar)
 Portion of Funding Received - 1 (Canadian dollar)
 Funding Renewable?: No
 Funding Competitive?: Yes

2016/1 - 2016/4 NSERC Day on Software Engineering for Cyber-physical Systems, Grant, Workshop
 Principal Investigator

Funding Sources:

2016/1 - 2016/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
 Connect
 Total Funding - 2,880 (Canadian dollar)
 Portion of Funding Received - 100
 Funding Competitive?: Yes

2015/9 - 2015/12 Ptidej Tool Suite, Grant, Operating
 Principal Investigator

Funding Sources:

Korean Open Source Association
 OSS World Challenge
 Total Funding - 3,000
 Portion of Funding Received - 100
 Funding Competitive?: Yes

2009/6 - 2014/6 Software Patterns and Patterns of Software, Research Chair
 Principal Investigator Clinical Research Project?: No

Funding Sources:

2009/6 - 2014/5 Canada Research Chairs (CRC)
 Tier 2
 Total Funding - 500,000 (Canadian dollar)
 Portion of Funding Received - 50 (Canadian dollar)
 Funding Competitive?: Yes

2009/5 - 2014/4 Software Patterns and Patterns of Software, Grant, Infrastructure
 Principal Investigator Clinical Research Project?: No

Funding Sources:

2009/5 - 2014/4 Canada Foundation for Innovation (CFI)
 Tier II
 Total Funding - 103,280 (Canadian dollar)
 Portion of Funding Received - 100 (Canadian dollar)
 Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2012/1 - 2013/4 Operationalizing Quality Evaluation for Heterogeneous Legacy Systems, Grant, Operating
 Principal Investigator Clinical Research Project?: No

Funding Sources:

2012/1 - 2013/4 MITACS and Benchmark Consulting
Accelerate
Total Funding - 80,000 (Canadian dollar)
Portion of Funding Received - 100 (Canadian dollar)
Funding Competitive?: No

Co-applicant : Giuliano Antoniol

2009/5 - 2012/4
Co-investigator

Méthodes à base de contraintes pour la vérification des systèmes logiciels-matériels,
Grant, Operating
Clinical Research Project?: No

Funding Sources:

2009/5 - 2012/4 Fonds Québécois de la Recherche sur la Nature et les
Technologies (FQRNT)
Projet en équipe
Total Funding - 168,900 (Canadian dollar)
Portion of Funding Received - 50 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Giuliano Antoniol;

Principal Investigator : Gilles Pesant

2007/5 - 2012/4
Principal Investigator

Understanding the Impacts of Software Design Patterns and, Grant, Operating

Funding Sources:

2007/5 - 2012/4 Natural Sciences and Engineering Research Council of Canada
(NSERC)
Subvention à la découverte
Total Funding - 135,000 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2008/5 - 2011/4
Co-investigator

Évaluation d'une intervention virtuelle (application Web) visant à optimiser la prise des
antirétroviraux auprès des personnes vivant avec le VIH, Grant, Operating
Clinical Research Project?: No

Funding Sources:

2008/5 - 2011/4 Fonds de la Recherche en Santé du Québec (FRSQ)
Équipe
Total Funding - 229,160 (Canadian dollar)
Portion of Funding Received - 1 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : José Côté

2007/5 - 2010/4
Principal Investigator

Application d'algorithmes de bio-informatique à l'analyse des programmes et de leur
évolution, Grant, Operating

Funding Sources:

2007/5 - 2010/4 Fonds Québécois de la Recherche sur la Nature et les
Technologies (FQRNT)
Projet en équipe
Total Funding - 155,000 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Sylvie Hamel

2006/11 - 2009/10 Mesure des objets pour la visualisation, l'évaluation et la re-ingénierie des logiciels,
Principal Investigator Contract, Operating

Funding Sources:

2006/11 - 2009/10 SNCF
Contrat de recherche
Total Funding - 112,000 (Canadian dollar)
Funding Competitive?: No

Co-investigator : Houari Saharoui

2007/5 - 2009/4 Efficacité d'un programme d'intervention sur mesure à optimiser l'adhésion au
Co-investigator antirétroviraux, Grant, Operating

Funding Sources:

2007/5 - 2009/4 Fonds Québécois de la Recherche sur la Société et la Culture
(FQRSC)
Projet en équipe
Total Funding - 150,000 (Canadian dollar)
Funding Competitive?: Yes

Principal Investigator : Côté, José

2008/1 - 2008/12 REMOOS, Grant, Operating
Co-investigator Clinical Research Project?: No

Funding Sources:

2008/1 - 2008/12 Institut National de Recherche en Informatique et Automatique
(INRIA)
Équipe Associée
Total Funding - 36,570 (Canadian dollar)
Portion of Funding Received - 50 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Oscar Nierstrasz;

Principal Investigator : Stéphane Ducasse

2007/9 - 2008/12 Vers un langage spécifique au domaine de la suggestion de correction des défauts de
Co-investigator conception, Grant, Operating

Funding Sources:

2007/9 - 2008/12 Institut National de Recherche en Informatique et Automatique
(INRIA)
Programme INRIA--FQRNT
Total Funding - 12,850 (Canadian dollar)
Funding Competitive?: Yes

Co-investigator : Anne-Françoise Le Meur;

Principal Investigator : Laurence Duchien

2008/1 - 2008/8 Soutenance de la thèse de doctorat de Naouel Moha, Grant, Operating
Principal Investigator

Funding Sources:

2008/1 - 2008/8 Université Lille 2 (France)
Crédits BQR - Internationalisation de la recherche
Total Funding - 2,215 (Canadian dollar)

Principal Investigator : Laurence Duchien

- 2007/5 - 2008/4
Principal Investigator
- Un outil d'évaluation de la qualité architecturale logicielle, Grant, Operating
- Funding Sources:**
2007/5 - 2008/4 University of Montreal
Valorisation des innovations et du capital intellectuel
Total Funding - 6,720 (Canadian dollar)
- Principal Investigator : Yann-Gaël Guéhéneuc
- 2007/5 - 2007/6
Principal Investigator
- Detection and Correction of Design Defects, Grant, Operating
- Funding Sources:**
2007/5 - 2007/6 Department of Foreign Affairs and International Trade (Canada)
Remboursement des frais de présentation
Total Funding - 495 (Canadian dollar)
- Principal Investigator : Yann-Gaël Guéhéneuc
- 2007/3 - 2007/4
Principal Investigator
- Collaboration avec Laurence Duchien et Anne-Francoise Le Meur de l'équipe INRIA Futurs ADAM, Grant, Operating
- Funding Sources:**
2007/3 - 2007/4 Institut National de Recherche en Informatique et Automatique (INRIA)
EGIDE : Centre français pour l'accueil et les échanges inter
Total Funding - 4,400 (Canadian dollar)
- Principal Investigator : Yann-Gaël Guéhéneuc, Laurence Duchien et Anne-Francoise Le Meur
- 2004/5 - 2007/4
Principal Investigator
- Tools to improve architectural and design maintainability of object-oriented programs, Grant, Operating
- Funding Sources:**
2004/5 - 2007/4 Natural Sciences and Engineering Research Council of Canada (NSERC)
Subvention à la découverte
Total Funding - 74,100 (Canadian dollar)
- Principal Investigator : Yann-Gaël Guéhéneuc
- 2005/9 - 2006/8
Co-investigator
- Support informatique pour l'analyse et l'amélioration du comportement des patients avec une maladie longue, Grant, Operating
- Funding Sources:**
2005/9 - 2006/8 Fonds de la Recherche en Santé du Québec (FRSQ)
Réseau SIDA et maladies infectieuses du FRSQ, en équipe
Total Funding - 15,000 (Canadian dollar)
- Principal Investigator : Côté, José
- 2005/9 - 2006/4
Principal Investigator
- A laboratory for experimental software engineering to evaluate online static analyses and program understanding techniques that support program maintenance and development., Grant, Equipment
- Funding Sources:**
2005/9 - 2006/4 Canada Foundation for Innovation (CFI)
Infrastructure
Total Funding - 362,140 (Canadian dollar)
- Principal Investigator :

2003/9 - 2004/8
Principal Investigator Ptidej, une suite d'outils pour évaluer et améliorer la qualité des programmes orientés-objets en promouvant l'utilisation de patrons, Grant, Establishment

Funding Sources:

2003/9 - 2004/8 University of Montreal
Fonds de démarrage
Total Funding - 30,000 (Canadian dollar)

Principal Investigator :

Under Review [n=5]

Principal Investigator WAPITERb - Where Are People In The ER Building, Grant, Equipment

Funding Sources:

2021/1 - 2024/12 Concordia University
Capital Call
Total Funding - 434,773 (Canadian dollar)

Co-investigator : Ursula Eicker

2024/5 - 2029/4
Co-applicant Centre for Systems, Technologies and Applications for Radiofrequency and Communications (Centre pour les systèmes, technologies et applications en radiofréquences et communications, STARaCom, in French), Grant

Funding Sources:

2024/3 - 2027/4 Fonds de recherche du Québec - Nature et technologies (FRQNT)
Strategic Cluster
Total Funding - 500,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-applicant : Yann-Gaël Guéhéneuc and 56 others;

Principal Applicant : David Plant

2024/5 - 2027/4
Co-applicant Interuniversity Research Center on Digital Humanities (Centre de recherche interuniversitaire sur les humanités numériques, CIRHN, in French), Grant

Funding Sources:

2024/3 - 2027/4 Fonds de recherche du Québec - Société et culture (FRQSC)
Strategic Cluster
Total Funding - 300,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-applicant : Yann-Gaël Guéhéneuc and 70 others;

Principal Applicant : Michael Eberle-Sinatra

2024/1 - 2025/12
Co-investigator International Community Energy Living Labs (ICELL), Grant

Funding Sources:

2024/1 - 2025/12 Canada First Research Excellence Fund
Electrification for Resilient Decarbonized Communities - Seed Grants
Total Funding - 250,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Aphrodite Salas; Caroline Hachem-Vermette; Ivan Kantor; Luiz Lopes; Mohamed Ouf; Yann-Gaël Guéhéneuc;

Principal Investigator : Ursula Eicker

2024/1 - 2025/12
Principal Investigator Interdisciplinary Research Collaboration between Quebec and Mexico on the Use of Multi-objective Optimisation to Improve API of IoT Frameworks (Collaboration de recherche interdisciplinaire entre le Québec et le Mexique in French), Grant

Funding Sources:

2024/1 - 2025/12 Ministère des Relations internationales et de la Francophonie (MRIF)
Groupe de travail Québec-Mexique
Total Funding - 16,000 (Canadian dollar)
Portion of Funding Received - 0
Funding Competitive?: Yes

Co-investigator : Carlos Coello Coello; Rodrigo Morales;

Principal Investigator : Yann-Gaël Guéhéneuc

Student/Postdoctoral Supervision

Bachelor's [n=7]

2024/8 - 2025/4
Principal Supervisor Henrique De Freitas Serra (In Progress) , Centro Universitário Estácio de Ribeirão Preto
Student Degree Start Date: 2024/8
Thesis/Project Title: Improving Ptidej Analyses

2024/5 - 2024/8
Co-Supervisor Armand Magelland Dim Dim (Completed) , ÉTS
Student Degree Start Date: 2024/5
Student Degree Received Date: 2024/8
Thesis/Project Title: Developping the WIMP Application with Smart Watches and Robots

2024/5 - 2024/8
Co-Supervisor Maximilien Blanchard-Bizien (Completed) , ÉTS
Student Degree Start Date: 2024/5
Student Degree Received Date: 2024/8
Thesis/Project Title: Developping the WIMP Application with Smart Watches and Robots

2020/1 - 2020/4
Principal Supervisor Pascal Archambault (Completed) , Concordia University
Student Degree Start Date: 2020/1
Student Degree Received Date: 2020/4
Thesis/Project Title: *Automated Bill Recognition System (Internship)*
Present Position: Ph.D. Student at Université de Montréal, QC, Canada

2019/5 - 2019/6
Principal Supervisor Nellybett Andrea (Completed) , Concordia University
Student Degree Start Date: 2019/5
Student Degree Received Date: 2019/6
Thesis/Project Title: *Kapua and Kura (Internship)*
Present Position: Living in Toronto, ON, Canada

2018/5 - 2018/8
Principal Supervisor Pascal Archambault (Completed) , Concordia University
Student Degree Start Date: 2018/5
Student Degree Received Date: 2018/8
Thesis/Project Title: *Open-source Web Browser for Embedded/Low-consumption Hardware (Internship with NSERC USRA)*
Present Position: Ph.D. Student at Université de Montréal, QC, Canada

2017/6 - 2017/8 Raphaël Bissonnette (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2017/6
 Student Degree Received Date: 2017/8
 Thesis/Project Title: *Open Data Infrastructure (Internship)*
 Present Position: Unknown

Bachelor's Equivalent [n=9]

2023/7 - 2023/8 Mathis Goichon (Completed) , Institut national des sciences appliquées de Lyon, France
 Principal Supervisor Student Degree Start Date: 2023/7
 Student Degree Received Date: 2023/8
 Thesis/Project Title: *Servicisation and Web Interface for Ptidej (Internship)*
 Present Position: Software engineer at Orange

2022/7 - 2022/9 Timothé Verstraete (Completed) , Institut national des sciences appliquées de Lyon,
 Principal Supervisor France
 Student Degree Start Date: 2022/7
 Student Degree Received Date: 2022/9
 Thesis/Project Title: *WIMP Project (Internship)*
 Present Position: DevOps and Cloud Engineer at AVISTO, France

2019/7 - 2019/11 Thibault Lamonier (Completed) , École des hautes études d'ingénieur, Lille, France
 Principal Supervisor Student Degree Start Date: 2019/7
 Student Degree Received Date: 2019/11
 Thesis/Project Title: *Multi-language Parsers for PADL (Internship)*
 Present Position: Consultant Cyber Risk and Security, France

2019/4 - 2019/7 Palmyre Würtz-Baroth (Completed) , École Polytechnique, Paris, France
 Principal Supervisor Student Degree Start Date: 2019/4
 Student Degree Received Date: 2019/7
 Thesis/Project Title: *P-MARt for Multi-language Patterns (Internship)*
 Present Position: Tool and Operations Project Manager at SNCF, France

2017/6 - 2017/8 Jean Rublé (Completed) , École nationale supérieure d'informatique pour l'industrie et
 Principal Supervisor l'entreprise, Évry, France
 Thesis/Project Title: *Linguistic Antipatterns (Internship)*
 Present Position: DevOps Engineer at Orange, Paris, France

2017/5 - 2017/8 Dipti Ranjan Sahu (Completed) , Indian Institute of Technology Bombay, Mumbai, MH,
 Principal Supervisor India
 Student Degree Start Date: 2017/6
 Student Degree Received Date: 2017/8
 Thesis/Project Title: *Open Data Infrastructure (Internship with MITACS Globalink)*
 Present Position: Unknown

2017/5 - 2017/8 Julien Hebmann (Completed) , Polytech Montpellier, France
 Principal Supervisor Student Degree Start Date: 2017/5
 Student Degree Received Date: 2017/8
 Thesis/Project Title: *JavaScript in NetSurf (Internship)*
 Present Position: Software Engineer in Montpellier, France

2017/5 - 2017/8 Niverthan Panchalingam (Completed) , Polytech Paris, France
 Principal Supervisor Student Degree Start Date: 2017/5
 Student Degree Received Date: 2017/8
 Thesis/Project Title: *JavaScript in NetSurf (Internship)*
 Present Position: Functional Verification and Validation Engineer at MBDA, Le Plessis-
 Robinson, France

2017/1 - 2017/5 Zichao Deng (Completed) , Nanyang Technological University, Singapore
 Principal Supervisor Student Degree Start Date: 2017/1
 Student Degree Received Date: 2017/5
 Thesis/Project Title: *Improving Brunch (Internship with MITACS Globalink)*
 Present Position: Unknown

Master's Equivalent [n=2]

2019/5 - 2019/6 Gleison Brito (Completed) , Federal University of Minas Gerais, Belo Horizonte, MG, Brazil
 Principal Supervisor Student Degree Start Date: 2019/5
 Student Degree Received Date: 2019/6
 Thesis/Project Title: *REST and GraphQL (Internship)*
 Present Position: Technical Education Teacher at ProZ, São Paulo, SP, Brazil

2019/5 - 2019/8 João Eduardo Montandon (Completed) , Federal University of Minas Gerais, Belo Horizonte, MG, Brazil
 Principal Supervisor Student Degree Start Date: 2019/5
 Student Degree Received Date: 2019/8
 Thesis/Project Title: *Developers' Characteristics (Internship)*
 Present Position: Seeking Research Position at a University in Portugal

Master's non-Thesis [n=6]

2018/9 - 2019/8 Vaibhav Jain (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/9
 Student Degree Received Date: 2019/8
 Thesis/Project Title: *MQTT for IoT (Informal Collaboration)*
 Present Position: Senior Software Engineer at Wayfair, Toronto, ON, Canada

2018/5 - 2018/8 Satnam Singh (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/5
 Student Degree Received Date: 2018/8
 Thesis/Project Title: *Seodin: An Open Data Infrastructure (Internship)*
 Present Position: Senior ML Engineer at OpenText, Waterloo, ON, Canada

2018/5 - 2018/8 Adrien Poupa (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/5
 Student Degree Received Date: 2018/8
 Thesis/Project Title: *A C# PADL Creator (Internship)*
 Present Position: Technical Lead at Turbulent, Montréal, QC, Canada

2018/5 - 2018/8 Urmil Kansara (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/5
 Student Degree Received Date: 2018/8
 Thesis/Project Title: *A Java Implementation of the Little Computer People (Internship)*
 Present Position: Technical Lead at Tech Mahindra, Toronto, ON, Canada

2018/5 - 2018/8 Vaibhav Jain (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/5
 Student Degree Received Date: 2018/8
 Thesis/Project Title: *A Java Implementation of the Little Computer People (Internship)*
 Present Position: Senior Software Engineer at Wayfair, Toronto, ON, Canada

2018/5 - 2018/8 Tejas Sadrani (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/5
 Student Degree Received Date: 2018/8
 Thesis/Project Title: *A Java Implementation of the Little Computer People (Internship)*
 Present Position: Software Engineer at PointClickCare, Mississauga, Ontario, Canada

Master's Thesis [n=34]

- 2024/9 - 2025/8
Principal Supervisor Luca Scistri (In Progress) , Concordia University
Student Degree Start Date: 2024/9
Thesis/Project Title: API Analysis of IoT Systems
Present Position: M.Sc. Student
- 2024/9 - 2025/8
Principal Supervisor Rushin Makwana (In Progress) , Concordia University
Student Degree Start Date: 2024/9
Thesis/Project Title: Middleware Data Visualisation
Present Position: M.Sc. Student
- 2024/5 - 2024/8
Principal Supervisor **Vishnu Rameshbabu** (Completed) , Concordia University
Student Degree Start Date: 2024/5
Student Degree Received Date: 2024/8
Thesis/Project Title: Improving the Ptidej Tool Suite with PlantUML and Other Features
- 2024/1 - 2025/12
Principal Supervisor Laurent Voisard (In Progress) , Concordia University
Student Degree Start Date: 2024/1
Thesis/Project Title: Understanding Game Architectures and Player Experience
Present Position: M.Sc. Student
- 2024/1 - 2025/12
Principal Supervisor Nicolas Rousse (In Progress) , Concordia University
Student Degree Start Date: 2024/1
Thesis/Project Title: Memory Protection in Highly Dynamic Operating Systems
Present Position: M.Sc. Student
- 2022/9 - 2024/7
Principal Supervisor Farideh Sanei (Completed) , Concordia University
Student Degree Start Date: 2022/9
Student Degree Received Date: 2024/7
Thesis/Project Title: **Quality of IoT Systems**
- 2022/1 - 2023/12
Principal Supervisor Gabriel Ullmann (In Progress) , Concordia University
Student Degree Start Date: 2022/1
Thesis/Project Title: **Studying Game Engine Architectures**
Present Position: M.Sc. Student
- 2021/9 - 2024/4
Co-Supervisor Nour Khezemi (Completed) , ÉTS
Student Degree Start Date: 2021/9
Student Degree Received Date: 2024/4
Thesis/Project Title: **Study of IoT System Architectural Styles and their Quality Requirements**
- 2020/1 - 2023/3
Principal Supervisor Jianbin Lai (Completed) , Concordia University
Student Degree Start Date: 2020/1
Student Degree Received Date: 2024/3
Thesis/Project Title: **CoAP and MQTT IoT APIs Comparisons**
- 2020/1 - 2021/11
Principal Supervisor Mohammad Nazemi (Completed) , Concordia University
Student Degree Start Date: 2020/1
Student Degree Received Date: 2021/11
Thesis/Project Title: **Implementing a Library to Calculate Surrogate Safety Measures** (MITACS Funding)
Present Position: Software engineer, BlueCity Technology, Montréal, QC, Canada

- 2019/9 - 2021/2
Co-Supervisor
Rafik Tighilt (Completed) , UQÀM
Student Degree Start Date: 2019/9
Student Degree Received Date: 2021/2
Thesis/Project Title: **Assistance à la maintenance et à l'évolution des logiciels via l'identification automatique d'anti-patrons dans les architectures à base de microservices** (FRQNT Master's Research Scholarship)
Present Position: Software engineer, Morgan Stanley, Montréal, QC, Canada
- 2019/6 - 2021/8
Principal Supervisor
Tuan Van Tran (Completed) , Concordia University
Student Degree Start Date: 2019/6
Student Degree Received Date: 2021/7
Thesis/Project Title: **Formalising Solutions to REST API Practices as Design (Anti)patterns**
Present Position: Software engineer, CoreLogic, Toronto, ON, Canada
- 2017/9 - 2018/12
Co-Supervisor
Antoine Barbez (Completed) , Polytechnique Montréal
Student Degree Start Date: 2017/9
Student Degree Received Date: 2018/12
Thesis/Project Title: **Deep Learning Structural and Historical Features for Anti Patterns Detection**
Present Position: Computer Vision Research Engineer, Parkopedia, Montréal, QC, Canada
- 2016/9 - 2018/5
Co-Supervisor
Atefeh Meshinchi (Completed) , Polytechnique Montréal
Student Degree Start Date: 2016/9
Student Degree Received Date: 2018/5
Thesis/Project Title: **QoS-aware Adaptive Resource Allocation Framework in SDN-based IoT Middleware**
Present Position: Senior Technical Manager, Bell IoT, Montréal, QC, Canada
- 2016/5 - 2018/1
Co-Supervisor
Rim Ben Dhaou (Completed) , École de technologie supérieure
Student Degree Start Date: 2016/5
Student Degree Received Date: 2018/1
Thesis/Project Title: **Modélisation de systèmes avioniques avec AADL** (NSERC CRD Funding)
Present Position: Software Consultant, Nexio, Montréal, QC, Canada
- 2016/5 - 2017/12
Co-Supervisor
Mahdis Zolfagharinia (Completed) , Polytechnique Montréal
Student Degree Start Date: 2016/5
Student Degree Received Date: 2017/12
Thesis/Project Title: **The Impact of Operating Systems and Environments on Build Results**
Present Position: ERP Project Manager, Lamour, Montréal, QC, Canada
- 2015/1 - 2016/8
Co-Supervisor
Béchir Bani (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/5
Student Degree Received Date: 2016/8
Thesis/Project Title: **The Impact of Cloud Patterns and Databases on the Energy Consumption of Cloud Applications**
Present Position: Business Intelligence Engineer, Ubisoft Montréal
- 2011/1 - 2012/8
Co-Supervisor
Étienne Duclos (Completed) , Polytechnique Montréal
Student Degree Start Date: 2011/1
Student Degree Received Date: 2012/8
Thesis/Project Title: **ACRE : un générateur automatique d'aspect pour tester des logiciels écrits en C++**
Present Position: Automation Engineer, Intel Security

- 2010/1 - 2012/12
Co-Supervisor
Neelesh Bhattacharya (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Test Data Generation for Exposing Interference Bugs in Multi-threaded Systems**
Present Position: Financial Solutions Analyst, BNP Paribas
- 2010/1 - 2012/12
Co-Supervisor
Ferdaous Boughanmi (Completed) , Polytechnique Montréal
Student Degree Start Date: 2008/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Source Code and License Statement Co-evolution**
Present Position: Lecturer, Cégep Bois-de-Bologne
- 2008/9 - 2010/11
Principal Supervisor
Marwen Abbes (Completed) , Polytechnique Montréal
Student Degree Start Date: 2008/9
Student Degree Received Date: 2010/11
Thesis/Project Title: **Impact of Antipatterns on Program Comprehension**
- 2007/9 - 2009/12
Principal Supervisor
Julien Tanteri (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2009/12
Thesis/Project Title: **Visualisation of Software Histories**
Present Position: Directeur du développement de logiciels chez Photon etc.
- 2007/9 - 2009/12
Principal Supervisor
Mathieu Lemoine (Completed) , Université de Montréal
Student Degree Start Date: 2007/5
Student Degree Received Date: 2009/10
Thesis/Project Title: **Refactorings and Traceability**
- 2007/9 - 2008/8
Principal Supervisor
Yousra Tagmouti (Completed) , Université de Montréal
Student Degree Start Date: 2006/9
Student Degree Received Date: 2008/7
Thesis/Project Title: **Generating Source Code from Patterns to Hardware Systems**
- 2007/5 - 2009/12
Principal Supervisor
Wei Wu (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2009/12
Thesis/Project Title: **Framework Evolution**
Present Position: Software Developer, SAP
- 2007/5 - 2008/8
Principal Supervisor
Paul Bertrand (Completed) , Université de Montréal
Student Degree Start Date: 2007/1
Student Degree Received Date: 2008/7
Thesis/Project Title: **Study of the Usability of PocketPC**
- 2006/9 - 2008/9
Principal Supervisor
Gerardo Cepeda (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2008/8
Thesis/Project Title: **Study of UML-based Program Comprehension**
Present Position: DevOps, Evangelist, Awesomeness Enabler, Desjardins
- 2006/9 - 2008/9
Principal Supervisor
Norddin Habti (Completed) , Université Montréal
Student Degree Start Date: 2006/5
Student Degree Received Date: 2008/8
Thesis/Project Title: **Static Analysis of the Composition Relation**

- 2006/9 - 2008/7
Principal Supervisor
Janice Ka-Yee Ng (Completed) , Université Montréal
Student Degree Start Date: 2004/9
Student Degree Received Date: 2008/6
Thesis/Project Title: **Modelling and Detecting the Behaviour of Design Patterns**
- 2004/9 - 2006/4
Principal Supervisor
Jean-Yves Guyomarc'h (Completed) , Université de Montréal
Student Degree Start Date: 2004/9
Student Degree Received Date: 2006/4
Thesis/Project Title: **Studying the Quality of Aspect-oriented Source Code**
Present Position: Development Manager at SAP
- 2004/9 - 2005/8
Principal Supervisor
Samah Rached (Completed) , Université de Montréal
Student Degree Start Date: 2003/9
Student Degree Received Date: 2005/10
Thesis/Project Title: **Visualisation du comportement des programmes par matrices d'adjacence**
- 2004/9 - 2007/2
Principal Supervisor
Saliha Bouden (Completed) , Université Montréal
Student Degree Start Date: 2003/9
Student Degree Received Date: 2007/2
Thesis/Project Title: **Coarse-grain (Non-)Behavior Preserving Refactorings**
- 2004/1 - 2005/8
Co-Supervisor
Olivier Kaczor (Completed) , Université de Montréal
Student Degree Start Date: 2004/9
Student Degree Received Date: 2006/4
Thesis/Project Title: **Design Pattern Identification using Bio-informatics Algorithms**
- 2003/9 - 2005/8
Principal Supervisor
Khashayar Khosravi (Completed) , Université de Montréal
Student Degree Start Date: 2003/9
Student Degree Received Date: 2005/10
Thesis/Project Title: **Design-patterns-enabled Object-oriented Metrics**
- Doctorate [n=32]**
- 2022/9 - 2026/8
Co-Supervisor
Sikander Ejaz (In Progress) , Concordia University
Student Degree Start Date: 2022/9
Thesis/Project Title: **Design and Implementation of an IoT Middleware for Cities of the Future**
Present Position: Ph.D. Student
- 2022/6 - 2022/12
Principal Supervisor
José Eduardo Cardoza Plata (Completed) , Instituto Politécnico Nacional, Mexico City, Mexico
Student Degree Start Date: 2022/6
Student Degree Received Date: 2022/12
Thesis/Project Title: *WIMP Project (Internship)*
Present Position: Ph.D. Student
- 2022/5 - 2026/12
Co-Supervisor
Brahim Mahmoudi (In Progress) , ÉTS
Student Degree Start Date: 2022/5
Thesis/Project Title: Business-oriented Identification of Microservices in Legacy Monolithic Systems
Present Position: Ph.D. Student
- 2021/5 - 2025/12
Principal Supervisor
Peter Yefi (In Progress) , Concordia University
Student Degree Start Date: 2021/5
Thesis/Project Title: **Designing IoT Systems for Sustainability**
Present Position: Ph.D. Student

- 2021/5 - 2025/4
Principal Supervisor Jean Baptiste Minani (In Progress) , Concordia University
Student Degree Start Date: 2021/5
Thesis/Project Title: **Testing IoT Systems**
Present Position: Ph.D. Student
- 2021/1 - 2024/12
Co-Supervisor Imen Trabelsi (In Progress) , ÉTS
Student Degree Start Date: 2021/1
Thesis/Project Title: **Unsupervised Learning for Microservices Migration**
Present Position: Ph.D. Student
- 2020/1 - 2025/12
Co-Supervisor Belal Nwiran (In Progress) , Concordia University
Student Degree Start Date: 2020/1
Thesis/Project Title: **Action Recognition in the Edge for Drone Control**
Present Position: Ph.D. Student
- 2018/5 - 2022/6
Principal Supervisor Cristiano Politowski (Completed) , Concordia University
Student Degree Start Date: 2018/5
Thesis/Project Title: **Improving Video Game Balance Testing Using Autonomous Agents**
Present Position: Post-doc., GEODES, DIRO, Université de Montréal, QC, Canada
- 2017/9 - 2023/5
Co-Supervisor Layan Etaiwi (Completed) , Polytechnique Montréal
Student Degree Start Date: 2017/9
Thesis/Project Title: **Consensus-based Recommendation Technique for Software Engineering Applications**
Present Position: Job Seeker
- 2017/9 - 2018/8
Co-Supervisor Diana El-Masri (Withdrawn) , Polytechnique Montréal
Student Degree Start Date: 2017/9
Thesis/Project Title: **Log for IoT Systems**
- 2017/9 - 2023/5
Principal Supervisor William Flageol (Completed) , Concordia University
Student Degree Start Date: 2017/9
Thesis/Project Title: **Improving Object Oriented Programming by Integrating Language Features to Support Immutability** (FRQNT Doctoral Research Scholarship)
Present Position: Lecturer, Université du Québec à Trois-Rivières, QC, Canada
- 2017/5 - 2017/8
Co-Supervisor Fatima Sabir (Completed) , COMSATS Institute of Information Technology Lahore
Student Degree Start Date: 2017/5
Student Degree Received Date: 2017/8
Thesis/Project Title: **Detection of Antipatterns from Service Oriented Architecture**
Present Position: Professor, University of the Punjab, PB, Pakistan
- 2016/5 - 2021/7
Principal Supervisor Manel Abdellatif (Completed) , Polytechnique Montréal
Student Degree Start Date: 2016/5
Student Degree Received Date: 2021/7
Thesis/Project Title: **Service Identification to Support the Migration of Legacy Systems to SOA** (FRQNT Doctoral Research Scholarship)
Present Position: Institutional Researcher, École de technologie supérieure, Montréal, QC, Canada
- 2015/9 - 2017/4
Co-Supervisor Fabio Petrillo (Completed) , Universidade Federal do Rio Grande do Sul
Student Degree Start Date: 2015/9
Student Degree Received Date: 2016/8
Thesis/Project Title: **Swarm Debugging: the Collective Debugging Intelligence of the Crowd**
Present Position: Professor, École de technologie supérieure, Montréal, QC, Canada

- 2015/1 - 2019/7
Principal Supervisor
Zeinab Kermansaravi (Completed) , Polytechnique Montréal
Student Degree Start Date: 2015/1
Student Degree Received Date: 2019/7
Thesis/Project Title: **Linguistic Anti-patterns: Impact Analysis on Code Quality**
Present Position: Job Seeker
- 2014/9 - 2017/12
Co-Supervisor
Rubén Saborido-Infantes (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/9
Student Degree Received Date: 2017/4
Thesis/Project Title: **Assisting Developers and Users in Developing and Choosing Efficient Mobile Device Apps**
Present Position: Researcher, Department of Computer Science and Programming Languages, University of Malaga, Spain
- 2011/9 - 2015/8
Principal Supervisor
Francis Palma (Completed) , Polytechnique Montréal
Student Degree Start Date: 2011/9
Student Degree Received Date: 2015/8
Thesis/Project Title: **Unifying Service Oriented Technologies for the Specification and Detection of their Antipatterns**
Present Position: Professor at University of New Brunswick
- 2011/1 - 2015/12
Principal Supervisor
Zépyrin Soh (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2015/12
Thesis/Project Title: **Improving Program Comprehension and Recommendation Systems using Developers' Context**
Present Position: Software Developer, Adacel
- 2010/9 - 2014/11
Principal Supervisor
Soumaya Medini (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2014/11
Thesis/Project Title: **Concepts Extraction from Execution Traces**
Present Position: Lecturer
- 2010/9 - 2015/5
Principal Supervisor
Zohreh Sharafi (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2015/5
Thesis/Project Title: **On the Influence of Representation Type and Gender on Recognition Tasks of Program Comprehension**
Present Position: Professor at Polytechnique Montréal
- 2010/5 - 2014/12
Principal Supervisor
Wei Wu (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/5
Student Degree Received Date: 2014/12
Thesis/Project Title: **Understanding and Tooling Framework API Evolution**
Present Position: Software Developer, SAP
- 2010/1 - 2014/12
Co-Supervisor
Abdelilah Sakti (Completed) , Polytechnique Montréal
Student Degree Start Date: 2010/9
Student Degree Received Date: 2014/12
Thesis/Project Title: **Automatic Test Data Generation using Constraint Programming and Search Based Software Engineering Techniques**
Present Position: Senior Research Scientist, United Technologies Research Center

- 2009/9 - 2012/7
Principal Supervisor Nasir Ali (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Analysing Source Code Structure and Mining Software Repositories to Create Requirements Traceability Links**
Present Position: Development Specialist, Strategic Mobility Group
- 2009/9 - 2015/12
Principal Supervisor Aminata Sabané (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2015/12
Thesis/Project Title: **Reducing Object-oriented Testing through the Analysis of Antipatterns**
Present Position: Directrice générale de l'Agence nationale de promotion des TIC au Burkina Faso
- 2009/9 - 2013/12
Principal Supervisor Fehmi Jaafar (Completed) , Université de Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2013/12
Thesis/Project Title: **Analysing Artefacts Dependencies to Evolving Software Systems**
Present Position: Professor at UQÀC
- 2009/9 - 2014/8
Principal Supervisor Venera Arnaoudova (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2014/8
Thesis/Project Title: **Towards Improving the Code Lexicon and its Consistency**
Present Position: Professor at Washington State University
- 2009/9 - 2013/8
Co-Supervisor Latifa Guerrouj (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/5
Student Degree Received Date: 2013/8
Thesis/Project Title: **Context-aware Source Code Vocabulary Normalization for Software Maintenance**
Present Position: Professor at ÉTS
- 2009/5 - 2015/12
Co-Supervisor Laleh Eshkevari (Completed) , Polytechnique Montréal
Student Degree Start Date: 2009/9
Student Degree Received Date: 2015/12
Thesis/Project Title: **Automatic Detection and Classification of Identifiers**
Present Position: Software engineer
- 2008/9 - 2012/11
Principal Supervisor Abdou Maiga (Completed) , Université de Montréal
Student Degree Start Date: 2008/9
Student Degree Received Date: 2012/11
Thesis/Project Title: **Impact and Detection of Design Smells**
Present Position: Director of IT, Ministry of Higher Education and Scientific Research, Ivory Coast
- 2007/9 - 2012/12
Principal Supervisor Salima Hassaine (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2012/12
Thesis/Project Title: **Evaluating Design Decay during Software Evolution**
- 2006/9 - 2010/8
Principal Supervisor Foutse Khomh (Completed) , Université Montréal
Student Degree Start Date: 2006/9
Student Degree Received Date: 2010/8
Thesis/Project Title: **A Design-aware Quality Model**
Present Position: Professor at Polytechnique Montréal

2005/9 - 2008/8 Naouel Moha (Completed) , Université de Montréal
 Principal Supervisor Student Degree Start Date: 2005/5
 Student Degree Received Date: 2008/8
 Thesis/Project Title: **Classification, Identification, and Correction of Design Defects**
 Present Position: Professor at ÉTS

Post-doctorate [n=11]

2022/5 - 2022/12 Majid Babaei (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2022/5
 Student Degree Received Date: 2022/12
 Thesis/Project Title: **Automated Robustness Testing Framework for State Machines**
 Present Position: Faculty Lecturer, Technology & Innovation, School of Continuing
 Studies, McGill University, Montréal, QC, Canada

2020/3 - 2020/7 Benjamin Benni (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2020/3
 Student Degree Received Date: 2020/7
 Thesis/Project Title: **Software Engineering Drones for Emergency Responses**
 Present Position: Software Engineer, Instant System, Biot, France

2020/3 - 2021/12 Fatima Sabir (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2020/3
 Thesis/Project Title: **Software Engineering Drones for Emergency Responses**
 Present Position: Professor, University of the Punjab, PB, Pakistan

2018/6 - 2018/12 Rodrigo Morales (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/6
 Student Degree Received Date: 2018/12
 Thesis/Project Title: **Improving Software Quality of IoT Systems through Refactorings**
 Present Position: Lecturer, Concordia University, Montréal, QC, Canada

2018/6 - 2018/12 Rubén Saborido-Infantes (Completed) , Concordia University
 Principal Supervisor Student Degree Start Date: 2018/5
 Student Degree Received Date: 2018/12
 Thesis/Project Title: **Search Based Software Engineering for IoT Software
 Optimisation**
 Present Position: Researcher, Department of Computer Science and Programming
 Languages, University of Malaga, Spain

2017/9 - 2018/12 Md Saidur Rahman (Completed) , Polytechnique Montréal
 Co-Supervisor Student Degree Start Date: 2017/9
 Student Degree Received Date: 2018/12
 Thesis/Project Title: **Applying Machine Learning Techniques to the Identification and
 Correction of Anomalies in Data**
 Present Position: Senior R&D Data Scientist, Desjardins, Montréal, QC, Canada

2016/12 - 2017/7 Anas Shatnawi (Completed) , UQÀM
 Co-Supervisor Student Degree Start Date: 2016/12
 Student Degree Received Date: 2017/7
 Thesis/Project Title: **Service-oriented Reengineering**
 Present Position: Senior R&D Software Engineer, Berger-Levrault, Montpellier, France

- 2015/4 - 2016/2
Co-Supervisor
Carla De Monteiro Marques (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/9
Student Degree Received Date: 2016/2
Student Canadian Residency Status: Work Permit
Thesis/Project Title: **Anti-patterns in Networks**
Present Position: Professor, Centro Universitário de João Pessoa, Brazil
- 2015/4 - 2016/2
Principal Supervisor
Henrique Jorge Amorim Holanda (Completed) , Polytechnique Montréal
Student Degree Start Date: 2014/9
Student Degree Received Date: 2016/2
Student Canadian Residency Status: Work Permit
Thesis/Project Title: **Anti-patterns in Service-based Application**
Present Position: Professor, Centro Universitário de João Pessoa, Brazil
- 2013/1 - 2013/12
Principal Supervisor
Ségla Kpodjedo (Completed) , Polytechnique Montréal
Student Degree Start Date: 2013/1
Student Degree Received Date: 2013/12
Thesis/Project Title: **Graph Matching**
Present Position: Professor at ÉTS
- 2007/9 - 2008/8
Principal Supervisor
Denier Simon (Completed) , Université de Montréal
Student Degree Start Date: 2007/9
Student Degree Received Date: 2009/8
Thesis/Project Title: **Design Pattern Composition**
Present Position: Software Engineer, Sogilis
- Diploma [n=1]**
- 2022/6 - 2022/7
Principal Supervisor
Martin Lecourt (Completed) , Lycée Louis-le-Grand, France
Student Degree Start Date: 2022/6
Student Degree Received Date: 2022/7
Thesis/Project Title: *Observational Internship (Internship)*
Present Position: Diploma Student
- Research Associate [n=7]**
- 2024/8 - 2024/12
Principal Supervisor
Florent Herbinger (In Progress) , University of Victoria
Student Degree Start Date: 2024/8
Thesis/Project Title: CityLayers
Present Position: Research Associate
- 2024/3 - 2025/4
Principal Supervisor
Meyo Zongo (In Progress) , Concordia University
Student Degree Start Date: 2024/3
Thesis/Project Title: SLR on Mobile Security
Present Position: Research Associate
- 2023/5 - 2023/6
Principal Supervisor
Elhachemi Alikacem (Completed) , Concordia University
Student Degree Start Date: 2023/5
Student Degree Received Date: 2023/6
Thesis/Project Title: **Development of a Mock-up Factory**
Present Position: Lecturer at École de technologie supérieure, Montréal, QC, Canada
- 2017/9 - 2018/8
Principal Supervisor
Fábio Petrillo (Completed) , Concordia University
Student Degree Start Date: 2017/9
Student Degree Received Date: 2018/8
Thesis/Project Title: **Alleviating the New Software Engineering Crisis**
Present Position: Professor, École de technologie supérieure, Montréal, QC, Canada

- 2009/1 - 2009/8
Principal Supervisor Yousra Tagmouti (Completed) , Université de Montréal
Student Degree Start Date: 2009/5
Student Degree Received Date: 2009/12
Thesis/Project Title: **Maintaining an Eye-tracking Infrastructure**
Present Position: Lecturer, Collège de Maisonneuve
- 2008/9 - 2010/11
Principal Supervisor Marwen Abbes (Completed) , Polytechnique Montréal
Student Degree Start Date: 2011/1
Student Degree Received Date: 2011/4
Thesis/Project Title: **Impact of Antipatterns on Program Comprehension**
Present Position: Senior Software Architect / Developer, Domum Link
- 2008/9 - 2009/8
Principal Supervisor Gerardo Cepeda (Completed) , Université de Montréal
Student Degree Start Date: 2008/9
Student Degree Received Date: 2008/12
Thesis/Project Title: **Eye-tracking and UML Class Diagrams**
Present Position: DevOps, Evangelist, Awesomeness Enabler, Desjardins

Level Not Specified [n=1]

- 2022/5 - 2024/4
Co-Supervisor Yahia El Fellah (Completed) , ÉTS
Student Degree Start Date: 2022/5
Student Degree Received Date: 2024/4
Thesis/Project Title: Optimisation des performances des systèmes IdO basés sur les microservices grâce aux meilleures pratiques : revue et étude empirique

Staff Supervision**Event Administration**

- 2023/9 - 2024/7 Co-organiser, 3rd International Workshop on Automated Software Engineering for Computer Games (ASE4Games'24) with ASE'24, Workshop, 2024/7 - 2024/7
- 2023/5 - 2024/6 Co-organiser and Lecturer, ReAnimate: 2024 Summer School on Retro Gaming History, Critic, and Development, Course, 2024/6 - 2024/6
- 2023/9 - 2024/4 Co-organiser, 6th International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'24) with ICSE'24, Workshop, 2024/4 - 2024/4
- 2019/9 - 2024/4 Steering Committee Member, International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT), Workshop, 2019/9 - 2024/4
- 2022/9 - 2023/5 Co-organiser, 5th International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'23) with ICSE'23, Workshop, 2023/5 - 2023/5
- 2021/11 - 2022/10 Co-organiser, 2nd International Workshop on Automated Software Engineering for Computer Games (ASE4Games'22) with ASE'22, Workshop, 2022/10 - 2022/10
- 2021/9 - 2022/5 Co-organiser, 4th International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'22) with ICSE'22, Workshop, 2022/5 - 2022/5
- 2020/11 - 2021/11 Co-organiser, 1st International Workshop on Automated Software Engineering for Computer Games (ASE4Games'21) with ASE'21, Workshop, 2021/11 - 2021/11

2020/9 - 2021/5	Co-organiser, 3rd International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'21) with ICSE'21, Workshop, 2021/5 - 2021/5
2019/4 - 2020/12	Program Co-chair, 28th IEEE/ACM International Conference on Program Comprehension (ICPC'20), Conference, 2020/7 - 2020/7
2019/9 - 2020/5	Co-organiser, 2nd International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'20) with ICSE'20, Workshop, 2020/5 - 2020/5
2017/5 - 2019/12	General Chair, 27th IEEE/ACM International Conference on Program Comprehension (ICPC'19), Conference, 2019/5 - 2019/5
2018/9 - 2019/5	Co-organiser, 1st International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'19) with ICSE'19, Workshop, 2019/5 - 2019/5
2015/5 - 2018/5	Steering Committee Member, International Conference on Program Comprehension (ICPC), Conference, 2015/5 - 2018/5
2014/3 - 2016/12	General Chair, 22nd IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER'15), Conference, 2015/3 - 2015/3

Editorial Activities

2020/5 - 2022/12	Editor in Chief, MDPI IoT, Journal
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Organizational Review Activities

2018/1 - 2026/12	Commissioner, Bureau de coopération interuniversitaire Committee for the Evaluation of Program Proposals (<i>Commission d'évaluation des projets de programmes</i> in French)
2022/10 - 2023/9	Co-chair, IEEE CS TCSE Most Influential Paper Award At the 39th IEEE International Conference on Software Maintenance and Evolution (ICSME'23)
2023/3 - 2023/6	External Referee, Singapore Management University, Singapore Evaluated a dossier for a promotion to Full Professor
2023/5 - 2023/5	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2023/1 - 2023/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2022/4 - 2022/11	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2022/1 - 2022/6	External Referee, Université de Namur Evaluated a dossier for a promotion to Full Professor
2022/4 - 2022/4	External Referee, Institut National de Recherche en Informatique et Automatique (INRIA) Provided an external report to support a secondment (détachement in French)
2022/1 - 2022/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports

2021/8 - 2021/9	Reviewer - Alliance Grant, Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2021/7 - 2021/8	External Referee, Concordia University Provided an external report for the Valedictorian Prize
2021/5 - 2021/7	External Referee, University of Alberta Evaluated a dossier for a promotion to Associate Professor
2020/5 - 2021/5	Jury Member, École Nationale des Sciences de l'Informatique, Tunisia For an accreditation to supervise research (<i>Habilitation à diriger des recherches</i> in French)
2021/4 - 2021/4	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2021/2 - 2021/2	Reviewer, Canada Research Chairs Provided an external report
2021/2 - 2021/2	Nominator, ACM Mining Software Repositories Conference Series (MSR) Nominated a candidate for the Ric Holt Early Career Achievement Award
2020/2 - 2020/6	External Foreign Expert, Department of Computer Science, COMSATS University Islamabad, PB, Pakistan Evaluated a dossier for a promotion to Associate Professor on Permanent Tenure
2020/3 - 2020/4	Reviewer, Mathematics of Information Technology and Complex Systems (MITACS) Provided external reports
2020/1 - 2020/1	Reviewer, Swiss National Science Foundation Provided external reports
2020/1 - 2020/1	External Referee, Queen's University at Kingston, ON, Ontario, Canada Evaluated a dossier for the Distinguished University Professor program
2020/1 - 2020/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2019/7 - 2019/9	Promotion Referee, Carleton University, Ottawa, ON, Canada Evaluated a dossier for a promotion to Associate Professor
2019/5 - 2019/9	External Foreign Expert, Department of Computer Science, COMSATS University Islamabad, PB, Pakistan Evaluated a dossier for a promotion to Associate Professor on Permanent Tenure
2019/4 - 2019/8	Jury Member, Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA) For an accreditation to supervise research (<i>Habilitation à diriger des recherches</i> in French)
2015/2 - 2019/5	Co-creator, Polytechnique Montréal, QC, Canada Joint Ph.D. program in Software Engineering between Polytechnique Montréal and Université de Montréal
2018/11 - 2019/1	External Foreign Expert, Department of Computer Science, COMSATS University Islamabad, PB, Pakistan Evaluated a dossier for a promotion to Associate Professor on Permanent Tenure
2018/11 - 2019/1	Reviewer - Review Committee 1507 (Computer Science), Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2018/8 - 2018/11	External Referee, University of Calgary, AB, Canada Evaluated a dossier for a promotion to Full Professor

2018/8 - 2018/9	External Reviewer, University of Saskatchewan Evaluated a dossier for a promotion to Full Professor
2018/2 - 2018/4	Reviewer, Canada Research Chairs Provided an external report
2018/2 - 2018/3	Reviewer - CRD Grant, Natural Sciences and Engineering Research Council of Canada (NSERC) Provided external reports
2018/1 - 2018/3	Nominator, CS-Can/Info-Can Nominated a candidate for the Outstanding Young Computer Science Researcher prize
2018/1 - 2018/2	Nominator, ACM Mining Software Repositories Conference Series (MSR) Nominated a candidate for the Early Career Achievement Award
2017/5 - 2017/5	External Referee, Singapore Management University, Singapore Evaluated a dossier for a promotion to Associate Professor
2017/2 - 2017/2	Referee, Heidelberg Laureate Forum Provided an external report to support the application of a young researcher

Community and Volunteer Activities

2012/5 - 2016/4	Évaluateur, Natural Sciences and Engineering Research Council of Canada (NSERC)
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International Collaboration Activities

2020/1 - 2024/12	Co-investigator, Mexico Research collaborations with Carlos Colleo Colleo at the Center for Research and Advanced Studies of the National Polytechnic Institute, Mexico City, Mexico (<i>Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional</i> in Spanish)
2014/6 - 2024/12	Co-investigator, Japan Research collaborations with Hironori Washizaki at the Waseda University, Tokyo, Japan
2019/5 - 2023/12	Co-investigator, France Associated Team (<i>Équipe associée</i> in French) with Nicolas Anquetil and Stéphane Ducasse from the RMod Team at INRIA Lille, France

Committee Memberships

2024/11 - 2025/1	Committee Member, Program Committee, 20th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE'25)
2024/11 - 2025/1	Committee Member, Program Committee, 13th International Conference on Formal Methods in Software Engineering (FormaliSE'25)
2024/11 - 2025/1	Committee Member, Program Committee, 33rd IEEE International Conference on Program Comprehension (ICPC'25)
2024/7 - 2024/9	Committee Member, Program Committee, 31st Asia-Pacific Software Engineering Conference (APSEC'24)
2024/7 - 2024/8	Committee Member, Program Committee, 1st International Workshop on Patterns and Practices of Reliable AI Engineering (AI-Pattern'24)
2024/5 - 2024/6	Committee Member, Program Committee, 4th International Workshop on MDE for Smart IoT Systems (MeSS'24)

2023/9 - 2024/6	Committee Member, Program Committee, 40th IEEE International Conference on Software Maintenance and Evolution (ICSME'24)
2024/2 - 2024/4	Committee Member, Program Committee, IEEE COMPSAC 2024 Smart IoT Symposium (SIoT'24)
2024/3 - 2024/3	Committee Member, Program Committee, 12th International Workshop of Eye Movements in Programming (EMIP'24)
2024/1 - 2024/2	Committee Member, Program Committee, 19th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE'24)
2023/11 - 2024/1	Committee Member, Program Committee, 12th International Conference on Mobile Software Engineering and Systems (MOBILESoft'24)
2023/3 - 2023/9	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 2 articles (with multiple revisions)
2023/7 - 2023/8	Committee Member, Program Committee, 30th Asia-Pacific Software Engineering Conference (APSEC'23)
2023/3 - 2023/8	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 1 articles (with multiple revisions)
2023/4 - 2023/6	Committee Member, Program Committee, 39th IEEE International Conference on Software Maintenance and Evolution (ICSME'23)
2023/5 - 2023/5	Committee Member, Program Committee, 3rd International Workshop on MDE for Smart IoT Systems (MeSS'23)
2022/2 - 2023/5	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 3 articles (with multiple revisions)
2018/9 - 2023/4	Chair, Department Hiring Committee for a Canada Research Chair, Concordia University
2018/9 - 2023/4	Chair, Department Hiring Committee for a Gina Cody Research Chair, Concordia University
2023/3 - 2023/3	Committee Member, Program Committee, 12th International Workshop on the Reliability of Intelligent Environments (WoRIE'23)
2023/3 - 2023/3	Committee Member, Program Committee, 11th International Workshop of Eye Movements in Programming (EMIP'23)
2023/1 - 2023/3	Committee Member, Reviewers, Springer Journal of Computer Science and Technology (JCST) Reviewed 1 article
2021/2 - 2022/11	Committee Member, Reviewers, IEEE Transactions on Software Engineering (TSE) Reviewed 2 articles (with multiple revisions)
2022/7 - 2022/8	Committee Member, Program Committee, 29th Asia-Pacific Software Engineering Conference (APSEC'22)
2022/2 - 2022/8	Committee Member, Reviewers, AITO Journal of Object Technology (JOT) Reviewed 2 articles
2021/12 - 2022/7	Committee Member, Reviewers, Wiley Journal of Software: Practice and Experience (JSPE) Reviewed 1 article (with multiple revisions)
2021/5 - 2022/7	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 2 articles (with multiple revisions)

2022/6 - 2022/6	Committee Member, Reviewers, Springer Software Quality Journal (SQJ) Reviewed 1 article
2022/5 - 2022/5	Committee Member, Program Committee, 2nd International Workshop on MDE for Smart IoT Systems (MeSS'22)
2022/1 - 2022/3	Committee Member, Reviewers, IEEE Transactions on Dependable and Secure Computing (TDSC) Reviewed 1 article
2022/2 - 2022/2	Committee Member, Program Committee, 10th International Workshop of Eye Movements in Programming (EMIP'22)
2021/12 - 2022/2	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 2 articles (with multiple revisions)
2021/10 - 2022/2	Committee Member, Reviewers, Elsevier Journal of Computer Languages (COLA) Reviewed 1 article
2021/4 - 2022/2	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 3 articles (with multiple revisions)
2021/10 - 2021/12	Committee Member, New Ideas and Emerging Results (NIER) Program Committee, 44th IEEE/ACM International Conference on Software Engineering (ICSE'22)
2021/9 - 2021/11	Committee Member, Reviewers, AITO Journal of Object Technology (JOT) Reviewed 1 article
2020/9 - 2021/11	Committee Member, Reviewers, ACM Transactions on Software Engineering and Methodology (TOSEM) Reviewed 1 article (with multiple revisions)
2021/8 - 2021/8	Committee Member, Program Committee, 28th Asia-Pacific Software Engineering Conference (APSEC'21)
2020/11 - 2021/7	Committee Member, Reviewers, Springer Arabian Journal for Science and Engineering (AJSE) Reviewed 1 article (with multiple revisions)
2021/6 - 2021/6	Committee Member, Program Committee, 5th International Conference on Computer Science and Application Engineering (CSAE'21)
2021/6 - 2021/6	Committee Member, Reviewers, IEEE Access Reviewed 1 article
2021/5 - 2021/6	Committee Member, Reviewers, Springer Journal of Ambient Intelligence and Humanized Computing (JAIHC) Reviewed 1 article (with multiple revisions)
2021/5 - 2021/5	Committee Member, Program Committee, 1st International Workshop on MDE for Smart IoT Systems (MeSS'21)
2021/3 - 2021/4	Committee Member, Program Committee, 10th International Workshop on the Reliability of Intelligent Environments (WoRIE'21)
2021/1 - 2021/4	Committee Member, Reviewers, Elsevier Science of Computer Programming (SCP) Reviewed 1 article (with multiple revisions)
2020/3 - 2021/4	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 1 article (with multiple revisions)
2021/3 - 2021/3	Committee Member, Petro-Canada Young Inovator Award (PCYIA), Concordia University
2021/3 - 2021/3	Committee Member, Program Committee, 8th International Workshop of Eye Movements in Programming (EMIP'21)

2021/3 - 2021/3	Committee Member, University Research Awards (URAs), Concordia University
2021/3 - 2021/3	Committee Member, Program Committee, 45rd IEEE Computer Software and Applications Conference (COMPSAC'21)
2021/3 - 2021/3	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 1 article (for a special issue)
2021/2 - 2021/3	Committee Member, RR (Registered Report) Program Committee, 18th International Working Conference on Mining Software Repositories (MSR'21)
2021/1 - 2021/2	Committee Member, Program Committee, 29th IEEE/ACM International Conference on Program Comprehension (ICPC'21)
2020/8 - 2020/9	Committee Member, Program Committee, 19th International Conference on Software and System Engineering (ICSR'20)
2020/7 - 2020/9	Committee Member, Program Committee, 27th Asia-Pacific Software Engineering Conference (APSEC'20)
2020/3 - 2020/9	Committee Member, Reviewers, Elsevier Expert Systems With Applications (ESWA) Reviewed 1 articles (with multiple revisions)
2020/1 - 2020/9	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 1 article (with multiple revisions)
2019/4 - 2020/9	Committee Member, Reviewers, Wiley Journal of Software: Evolution and Process (JSEP) Reviewed 3 articles (with multiple revisions)
2020/5 - 2020/5	Committee Member, Program Committee, 4th International Workshop on Model-Driven Engineering for the Internet-of-Things (MDE4IoT'20)
2020/1 - 2020/5	Committee Member, Best Thesis Award, CNRS GDR GPL Programming and Software Engineering Research Cluster of CNRS, France (<i>Groupement de Recherche Génie de la Programmation et du Logiciel</i> in French)
2019/6 - 2020/5	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 2 articles (with multiple revisions)
2020/2 - 2020/3	Committee Member, Program Committee, 44th IEEE Computer Software and Applications Conference (COMPSAC'20)
2020/2 - 2020/3	Committee Member, Research Award, Université du Québec à Montréal, QC, Canada
2020/2 - 2020/2	Committee Member, Program Committee, 7th International Workshop of Eye Movements in Programming (EMIP'20)
2019/8 - 2020/1	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 2 articles (with multiple revisions)
2019/3 - 2020/1	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 1 article (with multiple revisions)
2019/3 - 2020/1	Committee Member, Reviewers, ACM Computing Surveys (CSUR) Reviewed 1 article (with multiple revisions)
2019/12 - 2019/12	Committee Member, Tools Program Committee, 27th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER'20)
2019/11 - 2019/12	Committee Member, Program Committee, 27th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER'20)
2019/10 - 2019/11	Committee Member, Software Engineering in Practice (SEIP) Program Committee, 42nd IEEE/ACM International Conference on Software Engineering (ICSE'20)

2018/11 - 2019/10	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 1 article (with multiple revisions)
2019/8 - 2019/9	Committee Member, Program Committee, 26th Asia-Pacific Software Engineering Conference (APSEC'19)
2018/7 - 2019/9	Committee Member, Reviewers, Wiley Journal of Software: Practice and Experience (JSPE) Reviewed 1 article (with multiple revisions)
2019/7 - 2019/8	Committee Member, Reviewers, Springer Software Quality Journal (SQJ) Reviewed 1 article (with multiple revisions)
2019/6 - 2019/7	Committee Member, Program Committee, 19th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM'19)
2019/5 - 2019/5	Committee Member, Reviewers, Elsevier Applied Computing and Informatics (ACI) Reviewed 1 article
2019/1 - 2019/5	Committee Member, Best Thesis Award, CNRS GDR GPL Programming and Software Engineering Research Cluster of CNRS, France (<i>Groupement de Recherche Génie de la Programmation et du Logiciel</i> in French)
2019/2 - 2019/4	Committee Member, Program Committee, 43rd IEEE Computer Software and Applications Conference (COMPSAC'19)
2019/3 - 2019/3	Committee Member, Tools Program Committee, 27th IEEE/ACM International Conference on Program Comprehension (ICPC'19)
2018/6 - 2019/3	Committee Member, Reviewers, Springer Automated Software Engineering (AUSE) Reviewed 1 article (with multiple revisions)
2018/2 - 2019/3	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 5 articles (with multiple revisions)
2019/1 - 2019/2	Committee Member, Program Committee, 6th International Workshop on Eye Movements in Programming (EMIP'19)
2019/1 - 2019/2	Committee Member, Program Committee, International Symposium on Software Engineering for Cloud, Edge and IoT Systems (SECEI'20)
2018/12 - 2019/2	Committee Member, Reviewers, Hindawi Scientific Programming (SP) Reviewed 1 article
2018/11 - 2019/2	Committee Member, Reviewers, IEEE Transactions on Software Engineering (TSE) Reviewed 1 article
2018/6 - 2019/2	Committee Member, Reviewers, Wiley Journal of Software: Evolution and Process (JSEP) Reviewed 1 article
2018/12 - 2018/12	Committee Member, Demonstration Program Committee, 26th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER'19)
2018/10 - 2018/11	Committee Member, Reviewers, Elsevier Science of Computer Programming (SCP) Reviewed 1 article
2018/10 - 2018/10	Committee Member, Reviewers, ACM Communications Reviewed 1 article
2018/9 - 2018/10	Committee Member, Shepherd, 12th Latin American Conference on Pattern Languages of Programs (SugarLoafPLoP'18)
2017/2 - 2018/10	Committee Member, Reviewers, IEEE Transactions on Software Engineering (TSE) Reviewed 4 articles (with multiple revisions)

2018/7 - 2018/9	Committee Member, Reviewers, Hindawi Scientific Programming (SP) Reviewed 1 article
2017/12 - 2018/9	Committee Member, Reviewers, ACM Transactions on Software Engineering and Methodology (TOSEM) Reviewed 1 article (with multiple revisions)
2018/7 - 2018/8	Committee Member, Program Committee, 25th Asia-Pacific Software Engineering Conference (APSEC'18)
2018/6 - 2018/7	Committee Member, Program Committee, 18th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM'18)
2018/6 - 2018/6	Committee Member, Doctoral Symposium Program Committee, 33rd IEEE/ACM International Conference on Automated Software Engineering (ASE'18)
2018/4 - 2018/6	Committee Member, Program Committee, 33rd IEEE/ACM International Conference on Automated Software Engineering (ASE'18)
2018/2 - 2018/5	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 1 article (with multiple revisions)
2018/1 - 2018/5	Committee Member, Best Thesis Award, CNRS GDR GPL Programming and Software Engineering Research Cluster of CNRS, France (<i>Groupement de Recherche Génie de la Programmation et du Logiciel</i> in French)
2017/3 - 2018/5	Committee Member, Reviewers, Springer Empirical Software Engineering (EMSE) Reviewed 4 articles (with multiple revisions)
2017/3 - 2018/4	Committee Member, Reviewers, Elsevier Journal of Systems and Software (JSS) Reviewed 2 articles (with multiple revisions)
2018/2 - 2018/2	Committee Member, Program Committee, 26th IEEE/ACM International Conference on Program Comprehension (ICPC'18)
2018/1 - 2018/2	Committee Member, Demonstration Program Committee, 25th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER'18)
2017/5 - 2017/11	Committee Member, Reviewers, Elsevier Information and Software Technology (IST) Reviewed 3 articles (with multiple revisions)
2017/3 - 2017/11	Committee Member, Reviewers, Elsevier Science of Computer Programming (SCP) Reviewed 1 article
2017/7 - 2017/8	Committee Member, Program Committee, 24th Asia-Pacific Software Engineering Conference (APSEC'17)
2017/6 - 2017/8	Committee Member, Reviewers, Springer Software Quality Journal (SQJ) Reviewed 1 article (with multiple revisions)
2017/6 - 2017/7	Committee Member, New Ideas and Emerging Results (NIER) Program Committee, 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME'17)
2017/1 - 2017/3	Committee Member, Program Committee, 25th IEEE International Conference on Program Comprehension (ICPC'17)
2016/9 - 2017/1	Committee Member, New Ideas and Emerging Results (NIER) Program Committee, 39th IEEE/ACM International Conference on Software Engineering (ICSE'17)
2016/11 - 2016/12	Committee Member, Program Committee, 4rd International Workshop on Patterns Promotion and Anti-patterns Prevention (PPAP'17)

Other Memberships

- 2010/5 - 2024/8 Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- 2007/3 - 2024/4 Member, Ordre des ingénieurs du Québec
- 2004/1 - 2010/4 Member, Institute of Electrical and Electronics Engineers

Presentations

1. (2022). AI System Design Patterns: System Architecture, Component Design, and Model Operation. Huawei Strategy and Technology Workshop, Montréal, Canada
Main Audience: Knowledge User
Invited?: Yes, Keynote?: No

Publications

Journal Articles

1. Marcela G. Dos Santos, Fabio Petrillo, Sylvain Hallé, and Yann-Gaël Guéhéneuc. (2024). **AAT4IRS: Automated Acceptance Testing for Industrial Robotic Systems**. *Frontiers in Robotics and AI*. In Press, Frontiers,
Refereed?: Yes
Editors: Kostas J. Kyriakopoulos
2. Peter Yefi, Ramanunni Parakkal Menon, Ursula Eicker, and Yann-Gaël Guéhéneuc. (2024). **MetamEnTh: An Object-Oriented Metamodel for IoT Systems in Buildings**. *IEEE Internet of Things Journal (IoTJ)*. 11(15): 25818-25838.
Published, IEEE CS Press,
Refereed?: Yes
Description of Contribution Role: Nei Kato
3. Layan Etaïwi, Pascal Sager, Yann-Gaël Guéhéneuc, and Sylvie Hamel. (2024). **Consensus Task Interaction Trace Recommender to Guide Developers' Software Navigation**. *Springer Empirical Software Engineering (EMSE)*. 29(147)
Published, Springer,
Refereed?: Yes
Editors: Robert Feldt and Thomas Zimmermann
4. Jean Baptiste Minani, Fatima Sabir, Naouel Moha, and Yann-Gaël Guéhéneuc. (2024). **A Systematic Review of IoT Systems Testing: Objectives, Approaches, Tools, and Challenges**. *IEEE Transactions on Software Engineering (TSE)*.
Published,
Refereed?: Yes
Editors: Sebastian Uchitel
5. Gabriel Ullmann and Cristiano Politowski and Fabio Petrillo and Nicolas Anquetil and Yann-Gaël Guéhéneuc. (2024). **SyDRA: An Approach to Understand Game Engine Architecture**. *Elsevier Entertainment Computing (EC)*. 52
Published, Elsevier,
Refereed?: Yes
Editors: Ryohei Nakatsu and Matthias Rauterberg

6. Nour Khezemi, Jean Baptiste Minani, Fatima Sabir, Naouel Moha, Yann-Gaël Guéhéneuc, and Ghizlane El Boussaidi. (2024). **A Systematic Literature Review of IoT System Architectural Styles and their Quality Requirements**. IEEE Internet of Things Journal (IoTJ).
In Press, IEEE CS Press,
Refereed?: Yes
7. Hafedh Mili, Imen Benzarti, Amel El Kharraz, Ghizlane El Boussaidi, Yann-Gaël Guéhéneuc, and Petko Valtchev. (2023). **Discovering Reusable Functional Features in Legacy Object-oriented Systems**. IEEE Transactions on Software Engineering (TSE). 49(7)
Published,
Refereed?: Yes
8. Jean Baptiste Minani*, Fatima Sabir, Naouel Moha, and Yann-Gaël Guéhéneuc. (2023). **A Multi-Method Study of Internet of Things Systems Testing in Industry**. IEEE Internet of Things Journal (IoTJ).
Published,
Refereed?: Yes
9. William Flageol*, Eloi Menaud*, Yann-Gaël Guéhéneuc, Mourad Badri, and Stefan Monnier. (2023). **A Mapping Study of Language Features Improving Object-oriented Design Patterns**. Elsevier Information and Software Technology (IST).
Published,
Refereed?: Yes
10. Rafik Tighilt*, Manel Abdellatif, Imen Trabelsi*, Loïc Madern, Naouel Moha, and Yann-Gaël Guéhéneuc. (2023). **On the Maintenance Support for Microservice-based Systems through the Specification and the Detection of Microservice Antipatterns**. Elsevier Journal of Systems and Software (JSS). 204
Published,
Refereed?: Yes
11. Nicolas Anquetil, Julien Delplanque, Stéphane Ducasse, Oleksandr Zaitsev, Christopher P. Fuhrman, and Yann-Gaël Guéhéneuc. (2022). **What Do Developers Consider Magic Literals? A Smalltalk Perspective**. Elsevier Information and Software Technology (IST). 146
Published,
Refereed?: Yes
12. Hironori Washizaki, Foutse Khomh, Yann-Gaël Guéhéneuc, Hironori Takeuchi, Naotake Natori, Takuo Doi, and Satoshi Okuda. (2022). **Software-Engineering Design Patterns for Machine Learning Applications**. IEEE Computer. 55(1): 30-39.
Published, IEEE Computer Science Press,
Refereed?: Yes
13. Imen Trabelsi*, Manel Abdellatif, Abdalgader Abubaker, Naouel Moha, Sébastien Mosser, Samira Ebrahimi-Kahou, and Yann-Gaël Guéhéneuc. (2022). **From Legacy to Microservices: A Type-based Approach for Microservices Identification using Machine Learning and Semantic Analysis**. Wiley Journal of Software: Evolution and Process (JSEP).
Published,
Refereed?: Yes
14. Gias Uddin, Yann-Gaël Guéhéneuc, Foutse Khomh, and Chanchal Roy. (2021). **An Empirical Study of an Ensemble of Stand-Alone Sentiment Detection Tools for Software Engineering Document**. IEEE Transactions on Software Engineering and Methodology (TOSEM). 31(3): 1-38.
Published, ACM Press,
Refereed?: Yes
15. Zeinab Kermansaravi*, Md Saidur Rahman*, Foutse Khomh, Fehmi Jaafar, and Yann-Gaël Guéhéneuc. (2021). **Investigating Design Patterns and Design Anti-pattern Mutations and their Change- and Fault-proneness**. Springer Empirical Software Engineering (EMSE). 26(1)
Published, Springer,
Refereed?: Yes

16. Cristiano Politowski*, Fabio Petrillo, Gabriel C. Ullmann*, Yann-Gaël Guéhéneuc. (2021). **Game Industry Problems: An Extensive Analysis of the Gray Literature** . Elsevier Information and Software Technology (IST). 134
Published, Elsevier,
Refereed?: Yes
17. Fatima Sabir*, Yann-Gaël Guéhéneuc, Francis Palma, Naouel Moha, Ghulam Rasool, and Hassan Akhtar. (2021). **A Mixed-method Approach to Recommend Corrections and Correct REST Antipatterns**. IEEE Transactions on Software Engineering (TSE). 48(11): 4319-4338.
Published, IEEE CS Press,
Refereed?: Yes
18. Manel Abdellatif*, Rafik Tighilt*, Abdelkarim Belkhir, Naouel Moha, Yann-Gaël Guéhéneuc, and Éric Beaudry. (2021). **A Multi-dimensional Study on the State of the Practice of REST APIs Usage in Android Apps**. Springer Automated Software Engineering (AUSE). 27: 187-228.
Published, Springer,
Refereed?: Yes
19. Cristiano Politowski*, Fabio Petrillo, João Eduardo Montandon, Marco Tulio Valente, and Yann-Gaël Guéhéneuc. (2021). **Are Game Engines Software Frameworks? A Three-perspective Study**. Elsevier Journal of Software and Systems (JSS). 171
Published, Elsevier,
Refereed?: Yes
20. Manel Abdellatif*, Anas Shatnawi*, Hafedh Mili, Naouel Moha, Ghizlane El Bousaidi, Geoffrey Hecht, Jean Privat, and Yann-Gaël Guéhéneuc. (2021). **A Taxonomy of Service Identification Approaches for Legacy Software Systems Modernization**. Elsevier Journal of Systems and Software (JSS). 173
Published, Elsevier,
Refereed?: Yes
21. Maxime Lamothe, Yann-Gaël Guéhéneuc, and Weiyi Shang. (2021). **A Systematic Review of API Evolution Literature**. ACM Computing Surveys (CSUR). 54(8): 1-26.
Published,
Refereed?: Yes
22. João Eduardo Montandon, Cristiano Politowski*, Luciana Lourdes Silva, Marco Tulio Valente, Fabio Petrillo, and Yann-Gaël Guéhéneuc. (2021). **What Skills do IT Companies look for in New Developers? A Study with Stack Overflow Jobs** . Elsevier Information and Software Technology (IST). 129: Short paper.
Published, Elsevier,
Refereed?: Yes
23. Gias Uddin, Fatima Sabir*, Yann-Gaël Guéhéneuc, Omar Alam, and Foutse Khomh. (2021). **An Empirical Study of IoT Topics in IoT Developer Discussions on Stack Overflow**. Springer Empirical Software Engineering (EMSE). 26(6)
Published, Springer,
Refereed?: Yes
24. Cristiano Politowski*, Foutse Khomh, Simone Romano, Giuseppe Scanniello, Fabio Petrillo, Yann-Gaël Guéhéneuc, and Abdou Maiga*. (2020). **A Large Scale Empirical Study of the Impact of Spaghetti Code and Blob Anti-patterns on Program Comprehension**. Elsevier Journal of Systems and Software (JSS). 122
Published, Elsevier,
Refereed?: Yes

25. Guilherme Lacerda, Fabio Petrillo, Marcelo Pimenta, and Yann-Gaël Guéhéneuc. (2020). **Code Smells and Refactoring: A Tertiary Systematic Review of Challenges and Observations**. Elsevier Journal of Systems and Software (JSS). 167
Published, Elsevier,
Refereed?: Yes
26. Antoine Barbez*, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2020). **A Machine-learning based Ensemble Method for Anti-patterns Detection**. Elsevier Journal of Systems and Software (JSS). 161
Published, Elsevier,
Refereed?: Yes
27. Diana El Masri*, Fabio Petrillo, Yann-Gaël Guéhéneuc, Abdelwahab Hamou-Lhadj, and Anas Bouziane. (2020). **A Systematic Literature Review on Automated Log Abstraction Techniques**. Elsevier Information and Software Technology (IST). 122
Published, Elsevier,
Refereed?: Yes
28. Zohreh Sharafi*, Bonita Sharif, Yann-Gaël Guéhéneuc, Andrew Begel, Roman Bednarik, and Martha E. Crosby. (2020). **A Practical Guide on Conducting Eye Tracking Studies in Software Engineering**. Springer Empirical Software Engineering (EMSE). 25: 3128-3174.
Co-Author
Published, Springer,
Refereed?: Yes
29. Rodrigo Morales*, Rubén Saborido*, and Yann-Gaël Guéhéneuc. (2020). **MoMIT: Porting a JavaScript Interpreter on a Quarter Coin**. IEEE Transactions on Software Engineering (TSE). 47(12): 2771-2785.
Published, IEEE CS Press,
Refereed?: Yes
30. Mohab Aly, Foutse Khomh, Yann-Gaël Guéhéneuc, Hironori Washizaki, and Soumaya Yacout. (2019). **Is Fragmentation a Threat to the Success of the Internet of Things?**. IEEE Internet of Things Journal (IoTJ). 6: 472-487.
Published, IEEE CS Press,
Refereed?: Yes
31. Fábio Petrillo*, Yann-Gaël Guéhéneuc, Marcelo Pimenta, Carla Maria Dal Sasso Freitas, and Foutse Khomh. (2019). **Swarm Debugging: The Collective Intelligence on Interactive Debugging**. Elsevier Journal of Systems and Software (JSS). 153: 152-174.
Published, Elsevier,
Refereed?: Yes
32. Mahdis Zolfagharinia*, Bram Adams, and Yann-Gaël Guéhéneuc. (2019). **A Study of Build Inflation in 30 Million CPAN Builds on 13 Perl Versions and 10 Operating Systems**. Springer Empirical Software Engineering (EMSE). 24: 3933-3971.
Published, Springer,
Refereed?: Yes
33. Fatima Sabir*, Francis Palma, Ghulam Rasool, Yann-Gaël Guéhéneuc, and Naouel Moha. (2019). **A Systematic Literature Review on the Detection of Smells and their Evolution in Object-Oriented and Service-Oriented Systems**. Wiley Journal of Software: Practice and Experience (JSPE). 49(1): 3-39.
Published,
Refereed?: Yes
34. Francis Palma*, Naouel Moha, and Yann-Gaël Guéhéneuc. (2019). **UniDoSA: The Unified Specification and Detection of Service Antipatterns**. IEEE Transactions on Software Engineering (TSE). 45(10): 1024-1053.
Co-Author
Published, IEEE CS Press,
Refereed?: Yes

35. Hayet Brabra, Achraf Mtibaa, Fábio Petrillo*, Philippe Merle, Layth Sliman, Naouel Moha, Walid Gaaloul, Yann-Gaël Guéhéneuc, Boualem Benatallah, and Faïez Gargouri. (2019). **On Semantic Detection of Cloud API (Anti)Patterns**. Elsevier Information and Software Technology (IST). 107: 65-82.
Published, Elsevier,
Refereed?: Yes
36. Hironori Washizaki, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2018). **ProMeTA: A Taxonomy for Program Metamodels in Program Reverse Engineering**. Springer Empirical Software Engineering (EMSE). 23(4): 2323-2358.
Published,
Refereed?: Yes
37. Cristiano Politowski*, Lisandra M. Fontoura, Fabio Petrillo, and Yann-Gaël Guéhéneuc. (2018). **Learning from the Past: a Process Recommendation System for Video Game Projects using Postmortems Experiences**. Elsevier Information and Software Technology (IST). 100: 103-118.
Published,
Refereed?: Yes
38. Rubén Saborido*, Rodrigo Morales*, Foutse Khomh, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2018). **Getting the Most from Map Data Structures in Android**. Springer Empirical Software Engineering (EMSE). 23(5): 2829-2864.
Published,
Refereed?: Yes
39. Jane Huffman Hayes, Alexander Dekhtyar, Jody Larsen, and Yann-Gaël Guéhéneuc. (2018). **Effective Use of Analysts' Effort in Automated Tracing**. Springer Requirements Engineering (REEN). 23(1): 119-143.
Published,
Refereed?: Yes
40. Zéphyrin Soh*, Foutse Khomh, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2018). **Noise in Mylyn Interaction Traces and Its Impact on Developers and Recommendation Systems**. Springer Empirical Software Engineering (EMSE). 23: 645-692.
Co-Author
Published,
Refereed?: Yes
41. Le An, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2018). **An Empirical Study of Crash-inducing Commits in Mozilla Firefox**. Springer Software Quality Journal (SQJ). 26: 553-584.
Co-Author
Published,
Refereed?: Yes
42. Aminata Sabané*, Yann-Gaël Guéhéneuc, Venera Arnaoudova*, and Giuliano Antoniol. (2017). **Fragile Base-class Problem, Problem?**. Springer Empirical Software Engineering (EMSE). 22(5): 2612–2657.
Co-Author
Published,
Refereed?: Yes
43. Latifa Guerrouj*, Zeinab Kermansaravi*, Venera Arnaoudova*, Benjamin C. M. Fung, Foutse Khomh, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2017). **Investigating the Relation between Lexical Smells and Change- and Fault-proneness: An Empirical Study**. Springer Software Quality Journal (SQJ). 25(3): 641–670.
Co-Author
Published,
Refereed?: Yes

44. Francis Palma*, Javier Gonzalez-Huerta, Mohamed Founi, Naouel Moha, Guy Tremblay, and Yann-Gaël Guéhéneuc. (2017). **Semantic Analysis of RESTful APIs for the Detection of Linguistic Patterns and Antipatterns**. World Scientific International Journal of Cooperative Information Systems (IJCIS). 26(2): 1-37.
Co-Author
Published,
Refereed?: Yes
45. Fehmi Jaafar*, Angela Lozano, Yann-Gaël Guéhéneuc, and Kim Mens. (2017). **Analyzing Software Evolution and Quality by Extracting Asynchrony Change Patterns**. Elsevier Journal of Systems and Software (JSS). 131: 311–322.
Co-Author
Published,
Refereed?: Yes
46. Wenbin Li, Jane Huffman Hayes, Giulio Antoniol, Yann-Gaël Guéhéneuc, Bram Adams. (2016). **Error Leakage and Wasted Time: Sensitivity and Effort Analysis of a Requirements Consistency Checking Process**. Wiley Journal of Software: Evolution and Process. 28(12): 1061–1080.
Co-Author
Published,
Refereed?: Yes
47. Fehmi Jaafar, Yann-Gaël Guéhéneuc, Sylvie Hamel, Foutse Khomh, and Mohammad Zulkernine. (2016). **Evaluating the Impact of Design Pattern and Anti-pattern Dependencies on Changes and Faults**. Springer Journal of Empirical Software Engineering. 21(3): 896–931.
Co-Author
Published, Springer,
Refereed?: Yes, Synthesis?: No
48. Yann-Gaël Guéhéneuc, Gihwon Kwon, Pornsiri Muenchaisri. (2016). **Guest Editorial for the Special Section with the Extensions to the Best Papers from APSEC'13 and APSEC'14**. Elsevier Information and Software Technology. 74: 181–182.
Co-Editor
Published,
Refereed?: No
49. Wei Wu, Foutse Khomh, Bram Adams, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2016). **An Exploratory Study of API Changes and Usages based on Apache and Eclipse Ecosystems**. Springer Journal of Empirical Software Engineering. 21(6): 2366–2412.
Co-Author
Published,
Refereed?: Yes
50. José Côté, Sylvie Cossette, Pilar Ramirez-Garcia, Alexandra De Pokomandy, Catherine Worthington, Marie-Pierre Gagnon, Patricia Auger, François Boudreau, Joyal Miranda, Yann-Gaël Guéhéneuc, and Cécile Tremblay. (2015). **Evaluation of a Web-based Tailored Intervention (TAVIE en santé) to Support People Living with HIV in the Adoption of Health Promoting Behaviours: an Online Randomized Controlled Trial Protocol**. BMC Public Health. 15: N/A.
Co-Author
Published,
Refereed?: Yes

51. Nasir Ali, Zohreh Sharafi, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2015). **An Empirical Study on the Importance of Source Code Entities for Requirements Traceability**. Springer Journal of Empirical Software Engineering. 20(2): 442–478.
Co-Author
Published, Springer,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4
52. Yann-Gaël Guéhéneuc and Tom Mens. (2015). **Guest Introduction to the Special Issue on Software Maintenance and Evolution Research**. Springer Journal of Empirical Software Engineering. N/A: N/A.
Co-Editor
Published,
Refereed?: No
53. José Côté, Gaston Godin, Pilar Ramirez-Garcia, Geneviève Rouleau, Anne Bourbonnais, Yann-Gaël Guéhéneuc, Cécile Tremblay, and Joanne Otis. (2015). **Virtual Intervention to Support Self-Management of Antiretroviral Therapy Among People Living With HIV**. JMIR Publications Journal of Medical Internet Research. 17(1): e6.
Co-Author
Published, JMIR,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 8
54. Abdelilah Sakti, Gilles Pesant, and Yann-Gaël Guéhéneuc. (2015). **Instance Generator and Problem Representation to Improve Object Oriented Code Coverage**. IEEE Transaction on Software Engineering. 41(3): 294–313.
Co-Author
Published,
Refereed?: Yes
55. Wei Wu, Adrien Serveaux, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2015). **The Impact of Imperfect Change Rules on Framework API Evolution Identification: an Empirical Study**. Springer Journal of Empirical Software Engineering. 20(4): 1126–1158.
Co-Author
Published,
Refereed?: Yes
56. Zohreh Sharafi, Zéphyrin Soh, Yann-Gaël Guéhéneuc. (2015). **A Systematic Literature Review on the Usage of Eye-tracking in Software Engineering**. Elsevier Information and Software Technology. 67: 79–107.
Co-Author
Published,
Refereed?: Yes
57. Abdelilah Sakti, Gilles Pesant, and Yann-Gaël Guéhéneuc. (2014). **Instance Generator and Problem Representation to Improve Object Oriented Code Coverage**. IEEE Transactions on Software Engineering. 40(99): 1–22.
Co-Author
Published, IEEE CS Press,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 3

- [58.](#) Fehmi Jaafar, Yann-Gaël Guéhéneuc, Guiliano Antoniol, and Sylvie Hamel. (2014). **Detecting Asynchrony and Dephase Change Patterns by Mining Software Repositories**. Wiley Journal of Software Maintenance and Evolution: Research and Practice. 26(1): 77–106.
Co-Author
Published, Wiley,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4
- [59.](#) Venera Arnaoudova, Laleh Eshkevari, Massimiliano Di Penta, Rocco Oliveto, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2014). **REPENT: Analyzing the Nature of Identifier Renamings**. IEEE Transactions on Software Engineering. 40(5): 502–532.
Last Author
Published, IEEE CS Press,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 6
- [60.](#) Soumaya Medini, Venera Arnaoudova, Massimiliano Di Penta, Giulian Antoniol, Yann-Gaël Guéhéneuc, and Paolo Tonella. (2014). **SCAN: An Approach to Label and Relate Execution Trace Segments**. Wiley Journal of Software: Evolution and Process. 26(11): 962–995.
Co-Author
Published,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 6
- [61.](#) Francis Palma, Mathieu Nayrolles, Naouel Moha, Yann-Gaël Guéhéneuc, Benoit Baudry, and Jean-Marc Jézéquel. (2014). **SOA Antipatterns: An Approach for their Specification and Detection**. World Scientific International Journal of Cooperative Information Systems. 22(4): N/A.
Co-Author
Published,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 6
- [62.](#) Fehmi Jaafar, Yann-Gaël Guéhéneuc, Sylvie Hamel, and Foutse Khomh. (2013). **Analysing Anti-patterns Static Relationships with Design Patterns**. Electronic Communications of the EASST. 59: 930.
Co-Author
Published,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4
- [63.](#) Ségla Kpodjedo, Filippo Ricca, Philippe Galinier, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2013). **Studying Software Evolution of Large Object-oriented Software Systems using an ETGM Algorithm**. Wiley Journal of Software Maintenance and Evolution: Research and Practice. 25(2): 139–163.
Co-Author
Published,
Refereed?: Yes
- [64.](#) Joyal Miranda, José Côté, Gaston Godin, Martin Blais, Joanne Otis, Yann-Gaël Guéhéneuc, Ghayas Fadel, Luisa Barton, and Shawn Fowler. (2013). **An Internet-Based Intervention Condom-Him to Increase Condom Use Among Human Immunodeficiency Virus-Positive Men Who Have Sex With Men: Protocol for a Randomized Controlled Trial**. JMIR Publications JMIR Research Protocols. 2(2): e39.
Co-Author
Published, JMIR,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 9

- [65.](#) Latifa Guerrouj, Massimiliano Di Penta, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2013). **An Experimental Investigation on the Effects of Context on Source Code Identifiers Splitting and Expansion**. Springer Journal of Empirical Software Engineering. 19(6): 1706–1753.
Co-Author
Published, Springer,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4
- [66.](#) Ségla Kpodjedo, Filippo Ricca, Philippe Galinier, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2013). **MADMatch: Many-to-many Approximate Diagram Matching for Design Comparison**. IEEE Transactions on Software Engineering. 39(8): 1090–1111.
Co-Author
Published, IEEE CS Press,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 5
- [67.](#) Nasir Ali, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2013). **Trustrace: Mining Software Repositories to Improve the Accuracy of Requirement Traceability Links**. IEEE Transactions on Software Engineering. 39(5): 725–741.
Co-Author
Published, IEEE CS Press,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 3
- [68.](#) Benoît de Smet, Lorent Lempereur, Zohreh Sharafi, Yann-Gaël Guéhéneuc, Giuliano Antoniol, and Naji Habra. (2012). **Taupe: Visualising and Analysing Eye-tracking Data**. Elsevier Science of Computer Programming. 79: 260–278.
Co-Author
Published, Elsevier,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 6
- [69.](#) José Côté, Gaston Godin, Yann-Gaël Guéhéneuc, Geneviève Rouleau, Pilar Ramirez-Garcia, Joanne Otis, Cécile Tremblay, and Ghayas Fadel. (2012). **Evaluation of a Real-time Virtual Intervention to Empower Persons Living with HIV for Therapy Self-management: Study Protocol for an Online Randomized Controlled Trial**. BioMed Central Trials. 13(1): 187.
Co-Author
Published, BioMed Central,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 8
- [70.](#) José Côté, Geneviève Rouleau, Gaston Godin, Pilar Ramirez-Garcia, Yann-Gaël Guéhéneuc, Georgette Nahas, Cécile Tremblay, Joanne Otis, and Annick Hernandez. (2012). **Acceptability and Feasibility Study of a Virtual Intervention to Help Persons Living with HIV Manage their Daily Therapies**. SAGE Journal of Telemedicine and Telecare. 18(7): 409–421.
Co-Author
Published, Royal Society of Medicine Press,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 9
- [71.](#) Foutse Khomh, Massimiliano Di Penta, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2012). **An Exploratory Study of the Impact of Antipatterns on Class Change- and Fault-Proneness**. Springer Journal of Empirical Software Engineering. 17(3): 243–275.
Co-Author
Published, Springer,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4

- [72.](#) Latifa Guerrouj, Massimiliano Di Penta, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2011). **TIDIER: An Identifier Splitting Approach using Speech Recognition Techniques**. Wiley Journal of Software: Evolution and Process. 25(6): 575–599.
Co-Author
Published, Wiley,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4
- [73.](#) Ségla Kpodjedo, Filippo Ricca, Philippe Galinier, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2011). **Design Evolution Metrics for Defect Prediction in Object Oriented Systems**. Springer Journal of Empirical Software Engineering. 16(1): 141–175.
Co-Author
Published,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 5
- [74.](#) Foutse Khomh, Stéphane Vaucher, Yann-Gaël Guéhéneuc, and Houari Sahraoui. (2011). **A GQM-based Method and a Bayesian Approach for the Detection of Code and Design Smells**. Elsevier Journal of Software and Systems. 84(4): 559–572.
Co-Author
Published, Elsevier,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 4
- [75.](#) José Côté, Pilar Ramirez-Garcia, Geneviève Rouleau, Diane Saulnier, Yann-Gaël Guéhéneuc, Annick Hernandez, and Gaston Godin. (2011). **A Nursing Virtual Intervention: Real-Time Support for Managing Antiretroviral Therapy**. Wolters Kluwer Health Computers, Informatics, Nursing. 29(1): 43–51.
Co-Author
Published, Lippincott, Williams, and Wilkins,
Refereed?: Yes, Synthesis?: No
Number of Contributors: 7
- [76.](#) Naouel Moha, Yann-Gaël Guéhéneuc, Laurence Duchien, and Anne-Françoise Le Meur. (2010). **DECOR: A Method for the Specification and Detection of Code and Design Smells**. IEEE Transactions on Software Engineering. 36(1): 20–36.
Co-Author
Published, IEEE Computer Society Press,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 4
- [77.](#) Houari Sahraoui, Lionel C. Briand, Yann-Gaël Guéhéneuc, and Olivier Beaurepaire. (2010). **Investigating the Impact of a Measurement Program on Software Quality**. Elsevier Information and Software Technology. 52(9): 923–933.
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 4
- [78.](#) Gerardo Cepeda Porras and Yann-Gaël Guéhéneuc. (2010). **An Empirical Study on the Efficiency of Different Design Pattern Representations in UML Class Diagrams**. Springer Empirical Software Engineering. 15(5): 493–522.
Co-Author
Published, Springer,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 2

- [79.](#) Yann-Gaël Guéhéneuc, Jean-Yves Guyomarc'h, and Houari Sahraoui. (2010). **Improving Design Pattern Identification: a New Approach and an Exploratory Study**. Springer Software Quality Journal. 18(1): 145–166.
Co-Author
Published, Springer,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 3
- [80.](#) Olivier Kaczor, Yann-Gaël Guéhéneuc, and Sylvie Hamel. (2010). **Identification of Design Motifs with Pattern Matching Algorithms**. Elsevier Information and Software Technology. 52(2): 152–168.
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 3
- [81.](#) Naouel Moha, Yann-Gaël Guéhéneuc, Anne-Françoise Le Meur, Laurence Duchien, and Alban Tiberghien. (2010). **From a Domain Analysis to the Specification and Detection of Code and Design Smells**. Springer Formal Aspects of Computing. 22(3): 345–368.
Co-Author
Published, Springer,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 5
- [82.](#) Yann-Gaël Guéhéneuc. (2009). **A Theory of Program Comprehension---Joining Vision Science and Program Comprehension**. International Journal of Software Science and Computational Intelligence. 1(2): 54-72.
Co-Author
Published, IGI Global,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 1
- [83.](#) Janice Ka-Yee Ng, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2009). **Identification of Behavioral and Creational Design Motifs through Dynamic Analysis**. Journal of Software Maintenance and Evolution. 22(8): 597-627.
Co-Author
Published, Wiley,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 3
- [84.](#) Gueheneuc, Yann-Gael and Kagdi, Huzefa and Maletic, Jonathan I. (2009). Working session: Using eye-tracking to understand program comprehension. IEEE International Conference on Program Comprehension. : 278 - 279.
Published,
- [85.](#) Yann-Gaël Guéhéneuc and Giuliano Antoniol. (2008). DeMIMA: A Multi-layered Framework for Design Pattern Identification. Transactions on Software Engineering. 34(5): 667-684.
First Listed Author
Published, IEEE CS Press,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Editors: Dr. Taylor and Dr. Kramer

- [86.](#) Denys Poshyvanyk, Yann-Gaël Guéhéneuc, Andrian Marcus, Giuliano Antoniol, and Václav Rajlich. (2007). **Feature Location using Probabilistic Ranking of Methods based on Execution Scenarios and Information Retrieval**. Transactions on Software Engineering. 33(6): 420-431.
Co-Author
Published, IEEE CS Press,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 5
- [87.](#) Giuliano Antoniol and Yann-Gaël Guéhéneuc. (2006). Feature Identification: An Epidemiological Metaphor. Transactions on Software Engineering. 32(9): 627-641.
Co-Author
Published, IEEE CS Press,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 2
Editors: Dr. Gyimothy and Dr. Rajlich
- [88.](#) Andrés Fariás and Yann-Gaël Guéhéneuc. (2003). **On the Coherence of Component Protocols**. Electronic Notes in Theoretical Computer Science. 82(5): 42-53.
Co-Author
Published, Elsevier,
Refereed?: Yes, Open Access?: No, Synthesis?: No
Number of Contributors: 2

Journal Issues

1. Shinpei Hayashi, Yann-Gaël Guéhéneuc, and Michel R.V. Chaudron. (2023). Guest Editor's Introduction: Special Issue on Program Comprehension. Springer Empirical Software Engineering (EMSE). 3(28): 2.
Published,
Refereed?: No
Editors: Shinpei Hayashi, Yann-Gaël Guéhéneuc, and Michel R.V. Chaudron
2. Rodrigo Morales, Rubén Saborido, Shah Rukh Humayoun, and Yann-Gaël Guéhéneuc. (2020). Guest Editor's Introduction: Special Issue on Software Engineering Research and Practices for the Internet of Things. IEEE Internet of Things Journal (IoTJ). 7(10): 2.
Published, IEEE CS Press,
Refereed?: No
Editors: Rodrigo Morales, Rubén Saborido, Shah Rukh Humayoun, and Yann-Gaël Guéhéneuc
3. Yann-Gaël Guéhéneuc and Tom Mens. (2015). Guest Editor's Introduction: Software Maintenance and Evolution Research. Empirical Software Engineering. N/A
Co-Author
Accepted, Springer,
Refereed?: No
Number of Contributors: 2
Editors: Yann-Gaël Guéhéneuc and Tom Mens
4. Yann-Gaël Guéhéneuc and Gi-hwon Kwon. (2014). Guest Editor's Introduction: APSEC'14. Information and Software Technology. N/A
Co-Author
Published, Elsevier,
Refereed?: No
Number of Contributors: 2
Editors: Yann-Gaël Guéhéneuc and Gi-hwon Kwon

- [5.](#) Tom Mens, Yann-Gaël Guéhéneuc, Juan Fernandez-Ramil, and Maja D'Hondt. (2010). Guest Editor's Introduction: Software Evolution. *Software*. 27(4): 4.
Co-Author
Published, IEEE CS Press,
Refereed?: No, Open Access?: Yes
Number of Contributors: 4
Editors: Tom Mens, Yann-Gaël Guéhéneuc, Juan Fernandez-Ramil, and Maja D'Hondt

Book Chapters

1. Yann-Gaël Guéhéneuc and Foutse Khomh. (2019). Empirical Software Engineering. Sungdeok Cha, Richard N. Taylor, and Kyo Chul Kang. *Springer Handbook of Software Engineering*. 1: 285-320.
Co-Author
Published, Springer,
Refereed?: Yes
2. Yann-Gaël Guéhéneuc, Gi hwon Kwon, and Pornsiri Muenchaisri. (2016). Guest Editorial: Special Section with the Extensions to the Best Papers from APSEC'13 and APSEC'14. Yann-Gaël Guéhéneuc, Gi hwon Kwon, and Pornsiri Muenchaisri. *Information and Software Technology*. : N/A.
Published, Elsevier, Germany
Refereed?: No
3. Yann-Gaël Guéhéneuc and Tom Mens. (2015). Guest Editorial: Introduction to the Special Issue on Software Maintenance and Evolution Research. Yann-Gaël Guéhéneuc and Tom Mens. *Journal of Empirical Software Engineering*. : N/A.
Published, Springer, Germany
Refereed?: No
- [4.](#) Foutse Khomh, Yann-Gaël Guéhéneuc, Giuliano Antoniol, and Massimiliano Di Penta. (2014). Modèles de qualité et conception des programmes. Abdelhak-Djamel Seriai. *Évolution et maintenance des systèmes logiciels*. Éditions Lavoisier: 85–116.
Co-Author
Published, Hermes Science, France
Refereed?: Yes
Number of Contributors: 4
- [5.](#) Nasir Ali, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2012). Factors Impacting the Inputs of Traceability Recovery Approaches. Jane Cleland-Huang, Orlena Gotel, and Andrea Zisman. *Software and Systems Traceability*. : 99–127.
Co-Author
Published, Springer, United States of America
Refereed?: Yes
Number of Contributors: 3
- [6.](#) Yann-Gaël Guéhéneuc. (2010). Design Patterns: Empirical Studies on the Impact of Design Patterns on Quality. N/A. *Encyclopedia of Software Engineering*. : 204-219.
First Listed Author
Published, Taylor and Francis Group, France
Refereed?: Yes
Number of Contributors: 1

7. Luc Charest, Yann-Gaël Guéhéneuc, and Yousra Tagmouti. (2009). Translating Design Pattern Concepts to Hardware Concepts. El Mostapha Aboulhamid and Frédéric Rousseau. System Level Design with .Net Technology. : 93-118.
Co-Author
Published, CRC Press, United States of America
Refereed?: Yes
Number of Contributors: 3
8. Khashayar Khosravi and Yann-Gaël Guéhéneuc. (2008). On Issues with Software Quality Models. N/A. Software Quality Metrics. : 218-235.
Co-Author
Published, ICFAI University Press, India
Refereed?: Yes
Number of Contributors: 2
9. Yann-Gaël Guéhéneuc, Jean-Yves Guyomarc'h, Khashayar Khosravi, and Houari Sahraoui. (2006). Design Patterns as Laws of Quality. Javier Garzás and Mario Piattini. Object-oriented Design Knowledge: Principles, Heuristics, Best Practices. : 105-142.
Co-Author
Published, Idea Group, United States of America
Refereed?: Yes
Number of Contributors: 4

Thesis/Dissertation

1. Un cadre pour la traçabilité des motifs de conception. (2003). École des Mines de Nantes. Doctorate.
Number of Pages: 350 Supervisor: Pierre Cointe

Reports

1. Yann-Gaël Guéhéneuc, Shah Rukh Humayoun, Rodrigo Morales, and Rubén Saborido. (2021). SERP4IoT'21 Workshop Report. 2. ACM SIGSOFT Software Engineering Notes.
2. Kendra M. L. Cooper, Fabio Petrillo, Yann-Gaël Guéhéneuc, and Cristiano Politowski*. (2021). ASE4Games'21 Workshop Report. 2. ACM SIGSOFT Software Engineering Notes.
3. Co-Editor. Yann-Gaël Guéhéneuc, Foutse Khomh, and Federica Sarro. (2019). Proceedings of the 27th International Conference on Program Comprehension. 1. IEEE.
Number of Contributors: 3

Conference Publications

1. Imen Trabelsi*, Naouel Moha, Yann-Gaël Guéhéneuc, and Lucas Geffard*. (2024). **MAGNET**: Method-based Approach using Graph Neural Network for Microservices Identification. IEEE. 21st International Conference on Software Architecture (ICSA'24), ORO and ROR Functional Badges, (1-11), Paper
Published
Refereed?: Yes
Editors: Romina Spalazzese and Heiko Koziolk

2. Peter Yefi*, Ursula Eicker, Yann-Gaël Guéhéneuc, Ramanunni Parakkal Menon, Sikandar Ejaz*. (2024). **Enabling Transmutable** Data Across Buildings and Systems Within Buildings. IEEE. 7th Conference on Cloud and Internet of Things (CIoT'24), ,
Paper
Published
Refereed?: Yes
Editors: Kim Koha Nguyen and Eirini Eleni Tsiropoulou
3. Jean Baptiste Minani*, Yann Gaël Guéhéneuc, Moha Naouel, Fatima Sabir, Yahia El-Fellah*, and Sanam Ahmed*. (2024). **An Exploratory** Study on Code Quality, Testing, Data Accuracy, and Practical Use Cases of IoT Wearables. IEEE. 7th Conference on Cloud and Internet of Things (CIoT'24), Short paper, ,
Paper
Published
Refereed?: Yes
Editors: Kim Koha Nguyen and Eirini Eleni Tsiropoulou
4. Hafedh Mili, Imen Benzarti*, and Amel El Kharraz*, Ghizlane El Boussaidi, Yann-Gaël Guéhéneuc, and Petko Valtchev. (2024). **Discovering Reusable** Functional Features in Legacy Object-Oriented Systems. ACM/IEEE. 46th International Conference on Software Engineering (ICSE'24), Journal First, (3827-3856),
Abstract
Published
Refereed?: Yes
5. Brahim Mahmoudi*, Imen Trabelsi*, Dalila Tamzalit, Naouel Moha, and Yann-Gaël Guéhéneuc. (2024). **BOAM: A Business-oriented** Identification Approach of Microservices within Legacy Systems. IEEE. 22nd International Conference on Service-Oriented Computing (ICSOC'24), ,
Paper
Published
Refereed?: Yes
Editors: Walid Gaaloul, Michael Sheng, and Qi Yu
6. Cristiano Politowski*, Fabio Petrillo, Ghizlane El Boussaidi, Gabriel C. Ullmann*, and Yann-Gaël Guéhéneuc. (2023). *Assessing Video Game Balance using Autonomous Agents*. ACM. 7th International Workshop on Games and Software Engineering (GAS'23), (25-32),
Paper
Published
Refereed?: Yes, Invited?: No
7. Hironori Washizaki, Foutse Khomh, Yann-Gaël Guéhéneuc, Hironori Takeuchi, Satoshi Okuda, and Naotake Natori. (2023). *Software Engineering Patterns for Machine Learning Applications (SEP4MLA) - Part 5 - Explainable Proxy Model*. ACM. 30th Conference on Pattern Languages of Programs (PLoP'23), (1-10),
Paper
Published
Refereed?: Yes
Editors: Valentino Vrančić and Kyle Brown
8. Weitao Pan*, Hironori Washizaki, Nobukazu Yoshioka, Yoshiaki Fukazawa, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2023). *A Machine Learning Based Approach to Detect Machine Learning Design Patterns*. IEEE. 30th Asia-Pacific Software Engineering Conference (APSEC'23), ERA Track, (574-578),
Paper
Published
Refereed?: Yes
Editors: Joo-yong Yi and Gary T. Leavens

9. Gabriel C. Ullmann*, Yann-Gaël Guéhéneuc, Fabio Petrillo, Nicolas Anquetil, and Cristiano Politowski*. (2023). *An Exploratory Approach for Game Engine Architecture Recovery*. ACM. 7th International Workshop on Games and Software Engineering (GAS'23), (8-15),
Paper
Published
Refereed?: Yes, Invited?: No
10. Gabriel Cavalheiro Ullmann*, Yann-Gaël Guéhéneuc, Fabio Petrillo, Nicolas Anquetil, and Cristiano Politowski. (2023). *Visualising Game Engine Subsystem Coupling Patterns*. IFIP. 22nd International Conference on Entertainment Computing (ICEC'23), (263-274),
Conference Date: 2023/11
Paper
Published
Refereed?: Yes
Editors: Helmut Hlavacs and Angelo Di Iorio
11. Cristiano Politowski*, Yann-Gaël Guéhéneuc, and Fábio Petrillo. (2022). *Towards Automated Video Game Testing: Still a Long Way to Go*. ACM. 6th International Workshop on Games and Software Engineering (GAS'22), (37-43),
Paper
Published
Refereed?: Yes, Invited?: No
12. Gabriel C. Ullmann*, Cristiano Politowski*, Yann-Gaël Guéhéneuc, and Fábio Petrillo. (2022). *What Makes a Game High-rated? Towards Factors of Video Game Success*. ACM. 6th International Workshop on Games and Software Engineering (GAS'22), (16-23),
Paper
Published
Refereed?: Yes, Invited?: No
13. Marcela G. dos Santos, Fábio Petrillo, Sylvain Hallé, and Yann-Gaël Guéhéneuc. (2022). *An Approach to Apply Automated Acceptance Testing for Industrial Robotic Systems*. IEEE. 6th International Conference on Robotic Computing (IRC'22), (336-337),
Poster
Published
Refereed?: Yes, Invited?: No
14. Gabriel C. Ullmann*, Cristiano Politowski*, Yann-Gaël Guéhéneuc, and Fábio Petrillo. (2022). **Game Engine Comparative Anatomy**. IFIP. 21st International Conference on Entertainment Computing (ICEC'22), (103-111),
Paper
Published
Refereed?: Yes
15. Md Saidur Rahman*, Foutse Khomh, Emilio Rivera, Yann-Gaël Guéhéneuc, and Bernd Lehnert. (2022). *Challenges in Machine Learning Application Development: An Industrial Experience Report*. ACM. 1st International Workshop on Software Engineering for Responsible Artificial Intelligence (SE4RAI'22), (21-28),
Paper
Published
Refereed?: Yes, Invited?: No

16. Hironori Washizaki, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2022). Software Engineering Patterns for Machine Learning Applications (SEP4MLA) - Part 4 - ML Gateway Routing Architecture. ACM. 29th Conference on Pattern Languages of Programs (PLoP'22), (1-10),
Paper
Published
Refereed?: Yes
Editors: Mary Lynn Manns and Eduardo Guerra
17. Gabriel C. Ullmann*, Cristiano Politowski*, Yann-Gaël Guéhéneuc, Fábio Petrillo, and João Eduardo Montandon. (2022). *Video Game Project Management Anti-patterns*. ACM. 6th International Workshop on Games and Software Engineering (GAS'22), (9-15),
Paper
Published
Refereed?: Yes, Invited?: No
18. Van Tuan Tran*, Manel Abdellatif, and Yann-Gaël Guéhéneuc. (2021). **Formalising Solutions to REST API Practices as Design (Anti)Patterns**. Springer. 19th International Conference on Service Oriented Computing (ICSOC'21), (153-170). Springer,
Paper
Published
Refereed?: Yes, Invited?: No
19. Van Tuan Tran*, Cheng Cheng, Fábio Petrillo, and Yann-Gaël Guéhéneuc. (2021). **Analyzing and Visualizing Projects and their Relations in Software Ecosystems**. IEEE. 9th Working Conference on Software Visualization (VISSOFT'21), (105-109). IEEE CS Press,
Paper
Published
Refereed?: Yes, Invited?: No
20. Cristiano Politowski*, Fábio Petrillo, and Yann-Gaël Guéhéneuc. (2021). **A Survey of Video Game Testing**. ACM. 2nd International Conference on Automation of Software Test (AST'21), (90-99). IEEE CS Press,
Paper
Published
Refereed?: Yes, Invited?: No
21. Jomphon Runpakprakun, Sien Reeve Ordonez Peralta, Hironori Washizaki, Foutse Khomh, Yann-Gaël Guéhéneuc, Nobukazu Yoshioka, and Yoshiaki Fukazawa. (2021). Software Engineering Patterns for Machine Learning Applications (SEP4MLA) - Part 3 - Data Processing Architectures. ACM. 28th Conference on Pattern Languages of Programs (PLoP'21), (1-10),
Paper
Published
Refereed?: Yes
Editors: Ademar Aguiar
22. Hironori Washizaki, Foutse Khomh, Yann-Gaël Guéhéneuc, Hironori Takeuchi, Satoshi Okuda, Naotake Natori, and Naohisa Shioura. (2020). **Software Engineering Patterns for Machine Learning Applications (SEP4MLA) - Part 2**. ACM. 27th Conference on Pattern Languages of Programs (PLoP'20), (1-10),
Paper
Published
Refereed?: Yes, Invited?: No

23. Rafik Tighilt*, Manel Abdellatif, Naouel Moha, Hafedh Mili, Ghizlane El Boussaidi, Jean Privat, and Yann-Gaël Guéhéneuc. (2020). **On the Study of Microservices Antipatterns: A Catalog Proposal**. ACM. 25th European Conference on Pattern Languages of Programs (EuroPLOP'20), (1-13). ACM Press, Paper
Published
Refereed?: Yes, Invited?: No
24. Devansh Tiwari, Hironori Washizaki, Yoshiaki Fukazawa, Tomoyuki Fukuoka, Junji Tamaki, Nobuhiro Hosotani, Munetaka Kohama, Yann-Gaël Guéhéneuc, and Foutse Khomh. (2020). **Commit, Defect, and Architectural Metrics-based Quality Assessment of C Language**. Springer. 15th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE'20), (579-586). SCITEPRESS, Paper
Published
Refereed?: Yes, Invited?: No
25. Manel Abdellatif*, Rafik Tighilt*, Naouel Moha, Hafedh Mili, Ghizlane El Boussaidi, Jean Privat, and Yann-Gaël Guéhéneuc. (2020). **A Type-sensitive Service Identification Approach for Legacy-to-SOA Migration**. Springer. 18th International Conference on Service Oriented Computing (ICSOC'20), (476-491). Springer, Paper
Published
Refereed?: Yes, Invited?: No
26. Zeineb Baba-Cheikh, Ghizlane El Boussaidi, Julien Gascon-Samson, Hafedh Mili, and Yann-Gaël Guéhéneuc. (2020). *A Preliminary Study of Open-source IoT Development Frameworks*. ACM. 2nd International Workshop on Software Engineering Research and Practices for the Internet of Things (SERP4IoT'20), (679-686). ACM Press, Paper
Published
Refereed?: Yes, Invited?: No
27. Layan Etaiwi*, Sylvie Hamel, Yann-Gaël Guéhéneuc, William Flageol*, and Rodrigo Morales. (2020). **Order in Chaos: Prioritizing Mobile App Reviews using Consensus Algorithms**. IEEE. 44th International Conference on Computers, Software, and Applications (COMPSAC'20), (912-920). IEEE CS Press, Paper
Published
Refereed?: Yes, Invited?: No
28. Cristiano Politowski*, Fábio Petrillo, Gabriel C. Ullmann*, Josias de Andrade Werly, and Yann-Gaël Guéhéneuc. (2020). *Dataset of Video Game Development Problems*. ACM. 17th International Conference on Mining Software Repositories (MSR'20), Data Showcase, (553-557). ACM Press, Paper
Published
Refereed?: Yes, Invited?: No
29. Cristiano Politowski*, Fábio Petrillo, and Yann-Gaël Guéhéneuc. (2020). *Improving Engagement Assessment in Gameplay Testing Sessions using IoT Sensors*. ACM. 2nd International Workshop on Software Engineering Research & Practices for the Internet of Things (SERP4IoT'20), (655-659). ACM Press, Paper
Published
Refereed?: Yes, Invited?: No

30. Hironori Washizaki, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2020). **Software Engineering Patterns for Machine Learning Applications (SEP4MLA)** . ACM. 9th Asian Conference on Pattern Languages of Programs (AsianPLoP'20), ,
Paper
Published
Refereed?: Yes, Invited?: No
31. Rafik Tighilt*, Naouel Moha, Manel Abdellatif, and Yann-Gaël Guéhéneuc. (2020). **Towards a Tool-based Approach for Microservice Antipatterns Identification**. IARIA. 10th International Conference on Service Oriented Computing (Service Computation'20), (1-6),
Paper
Published
Refereed?: Yes, Invited?: No
32. Guilherme Lacerda, Fabio Petrillo, Marcelo Soares Pimenta, and Yann-Gaël Guéhéneuc. (2020). **Code Smells and Refactoring: A Tertiary Systematic Review of Challenges and Observations**. IEEE. 36th International Conference on Software Maintenance and Evolution (ICSME'20), Journal First / Conference Second Track (J1C2), ,
Abstract
Published
Refereed?: Yes, Invited?: Yes
33. Benjamin Benni*, Sébastien Mosser, Jean-Philippe Caissy, and Yann-Gaël Guéhéneuc. (2020). **Can Microservice-based Online-retailers Be Used as an SPL? A Study of Six Reference Architectures**. ACM. 4th International Systems and Software Product Line Conference (SPLC'20), (1-6). ACM Press,
Paper
Published
Refereed?: Yes, Invited?: No
34. Hironori Washizaki, Hiromu Uchida, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2019). *Studying Software Engineering Patterns for Designing Machine Learning Systems*. IEEE. 10th International Workshop on Empirical Software Engineering in Practice (IWESep'19), (49-54). IEEE CS Press,
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
35. Mouna Abidi, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2019). **Anti-patterns for Multi-language Systems**. ACM. 24th European Conference on Pattern Languages of Programs (EuroPLoP'19), (1-14),
Paper
Published
Refereed?: Yes, Invited?: No
Editors: Tiago Boldt Sousa
36. Mouna Abidi, Manel Grichi, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2019). **Code Smells for Multi-language Systems**. ACM. 24th European Conference on Pattern Languages of Programs (EuroPLoP'19), (1-13). ACM Press,
Paper
Published
Refereed?: Yes, Invited?: No
Editors: Tiago Boldt Sousa

37. Abdelkarim Belkhir, Manel Abdellatif*, Rafik Tighilt*, Naouel Moha, Yann-Gaël Guéhéneuc, and Éric Beaudry. (2019). **An Observational Study on the State of REST API Uses in Android Mobile Applications**. ACM. 6th International Conference on Mobile Software Engineering and Systems (MOBILESoft'19), (66-75). IEEE CS Press,
Paper
Published
Refereed?: Yes, Invited?: No
Editors: Eli Tilevich
38. Rafik Tighilt*, Manel Abdellatif*, Nader Abu Saad, Naouel Moha, and Yann-Gaël Guéhéneuc. (2019). **Collection and Identification of Microservices Patterns and Antipatterns**. RNTI. 13e Conférence francophone sur les Architectures Logicielles (CAL'19), (1-8). Cépaduès-Éditions,
Paper
Published
Refereed?: Yes, Invited?: No
39. Antoine Barbez*, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2019). **Deep Learning Anti-Patterns from Code Metrics History**. IEEE. 35th International Conference on Software Maintenance and Evolution (ICSME'19), (114-124). IEEE CS Press,
Paper
Published
Refereed?: Yes, Invited?: No
40. Manel Grichi, Mouna Abidi, Yann-Gaël Guéhéneuc, and Foutse Khomh. (2019). **State of Practices of Java Native Interface**. ACM. 29th IBM Center for Advanced Studies Conference (CASCON'19), (274-283),
Paper
Published
Refereed?: Yes, Invited?: No
41. Manel Abdellatif*, Geoffrey Hecht, Hafedh Mili, Ghizlane El Boussaidi, Naouel Moha, Anas Shatnawi*, Jean Privat, and Yann-Gaël Guéhéneuc. (2018). **State of the Practice in Service Identification for SOA Migration in Industry**. ACM. 16th International Conference on Service Oriented Computing (ICSOC'18), (634-650),
Paper
Published
Refereed?: Yes, Invited?: No
42. Foutse Khomh and Yann-Gaël Guéhéneuc. (2018). **Design Patterns Impact on Software Quality: Where are the Theories?**. IEEE. 25th International Conference on Software Analysis, Evolution, and Reengineering (SANER'18), (15-25),
Paper
Published
Refereed?: Yes, Invited?: Yes
43. Geoffrey Hecht, Hafedh Mili, Ghizlane El Boussaidi, Anis Boubaker, Manel Abdellatif*, Yann-Gaël Guéhéneuc, Anas Shatnawi*, Jean Privat, and Naouel Moha. (2018). **Codifying Hidden Dependencies in Legacy J2EE Applications**. IEEE. 25th Asia-Pacific Software Engineering Conference (APSEC'18), (305-314),
Paper
Published
Refereed?: Yes, Invited?: No

44. Fabio Petrillo, Philippe Merle, Francis Palma*, Naouel Moha, and Yann-Gaël Guéhéneuc. (2018). **A Lexical and Semantical Analysis on REST Cloud Computing APIs**. Springer. 8th International Conference on Cloud Computing and Services Science (CLOSER'18), (308-332),
Paper
Published
Refereed?: Yes, Invited?: No
45. Cristiano Politowski*, Lisandra M. Fontoura, Fabio Petrillo, and Yann-Gaël Guéhéneuc. (2018). **Learning from the Past: A Process Recommendation System for Video Game Projects using Postmortems Experiences**. ACM. 12th International Symposium on Empirical Software Engineering and Measurement (ESEM'18), Journal First Presentation, ,
Abstract
Published
Refereed?: Yes, Invited?: Yes
46. Aiko Yamashita, Fabio Petrillo, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2018). *Developer Interaction Traces backed by IDE Screen Recordings from Think-aloud Sessions*. ACM. 15th International Conference on Mining Software Repositories (MSR'18), Data Showcase, (50-53),
Paper
Published
Refereed?: Yes, Invited?: No
47. Mahdis Zolfagharinia*, Bram Adams, and Yann-Gaël Guéhéneuc. (2017). **Do Not Trust Build Results at Face Value: An Empirical Study of 30 Million CPAN Builds**. ACM. 14th International Conference on Mining Software Repositories (MSR'17), (312-322),
Paper
Published
Refereed?: Yes, Invited?: No
48. José Côté, Sylvie Cossette, Pilar Ramirez-Garcia, Geneviève Rouleau, Patricia Auger, François Boudreau, Marie-Pierre Gagnon, and Yann-Gaël Guéhéneuc. (2017). *A Web-based Nursing Tailored Intervention to Support Health Behaviour Change among People Living with HIV: Development and Demonstration of TAVIE en santé*. University College London. 3rd Centre for Behaviour Change Digital Health Conference (CBC'17), ,
Poster
Published
Refereed?: Yes, Invited?: No
49. Aiko Yamashita, S. Amirhossein Abtahizadeh, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2017). *Software Evolution and Quality Data from Controlled, Multiple, Industrial Case Studies*. ACM. 14th International Conference on Mining Software Repositories (MSR'17), Data Showcase, (507–510),
Paper
Published
Refereed?: Yes, Invited?: No
50. Rubén Saborido*, Foutse Khomh, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2017). **Comprehension of Ads-supported and Paid Android Applications: Are They Different?**. IEEE. 25th International Conference on Program Comprehension (ICPC'17), (143-153),
Paper
Published
Refereed?: Yes, Invited?: No
51. Abdelilah Sakti*, Gilles Pesant, and Yann-Gaël Guéhéneuc. (2017). *JTExpert at the Fifth Unit Testing Tool Competition*. IEEE. 10th International Workshop on Search-Based Software Testing (SBST'17), (43-46),
Paper
Published
Refereed?: Yes, Invited?: No

52. Fehmi Jaafar, Angela Lozano, Yann-Gaël Guéhéneuc, and Kim Mens. (2017). **On the Analysis of Co-Occurrence of Anti-Patterns and Clones**. IEEE. 3rd International Conference on Software Quality, Reliability, and Security (QRS'17), (274-284),
Paper
Published
Refereed?: Yes, Invited?: No
53. Fabio Petrillo*, Hyan Mandian, Aiko Yamashita, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2017). **How Do Developers Toggle Breakpoints? Observational Studies**. IEEE. 3rd International Conference on Software Quality, Reliability, and Security (QRS'17), (285-295),
Paper
Published
Refereed?: Yes, Invited?: No
54. Anas Shatnawi*, Hamed Mili, Ghizlane El Boussaidi, Anis Boubaker, Yann-Gaël Guéhéneuc, Naouel Moha, Jean Privat, and Manel Abdellatif*. (2017). **Analyzing Program Dependencies in Java EE Applications**. ACM. 14th International Conference on Mining Software Repositories (MSR'17), (64-74),
Paper
Published
Refereed?: Yes, Invited?: No
55. Fábio Petrillo*, Philippe Merle, Naouel Moha, and Yann-Gaël Guéhéneuc. (2017). **Towards a REST Cloud Computing Lexicon**. ScitePress. 7th International Conference on Cloud Computing and Services Science (CLOSER'17), (348-355),
Paper
Published
Refereed?: Yes, Invited?: No
56. Zéphyrin Soh, Aiko Yamashita, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2016). **Do Code Smells Impact the Effort of Different Maintenance Programming Activities?**. 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering, Klagenfurt, Austria (393–402),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
57. Fábio Petrillo, Zéphyrin Soh, Foutse Khomh, Marcelo Soares Pimenta, Carla Maria Dal Sasso Freitas, and Yann-Gaël Guéhéneuc. (2016). **Understanding Interactive Debugging with Swarm Debug Infrastructure**. 24th IEEE International Conference on Program Comprehension, Austin, United States of America (1–4),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
58. Béchir Bani, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2016). **A Study of the Energy Consumption of Databases and Cloud Patterns**. 14th Springer International Conference on Service-Oriented Computing, Banff, Canada (606–614),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

59. Bilal Karasneh, Michel R. V. Chaudron, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2016). **Studying the Relation between Anti-Patterns in Design Models and in Source Code**. 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering, Klagenfurt, Austria (36–45),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
60. Fábio Petrillo, Philippe Merle, Naouel Moha, and Yann-Gaël Guéhéneuc. (2016). **Are REST APIs for Cloud Computing Well-Designed? An Exploratory Study**. 14th Springer International Conference on Service Oriented Computing, Banff, Canada (157–170),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
61. Hassna Louadah, Roger Champagne, Yvan Labiche, and Yann-Gaël Guéhéneuc. (2016). **A Data Extraction Process for Avionics Systems' Interface Specifications**. 4th ScitePress International Conference on Model-Driven Engineering and Software Development, Roma, Italy,
Paper
Co-Author
Accepted
Refereed?: Yes, Invited?: No
62. Hironori Washizaki, Yann-Gaël Guéhéneuc, and Foutse Khomh. (2016). **A Taxonomy for Program Metamodels in Program Reverse Engineering**. 32nd IEEE International Conference on Software Maintenance and Evolution, Raleigh, United States of America (44–55),
Paper
Published
Refereed?: Yes, Invited?: No
63. Abdelilah Sakti, Gilles Pesant, and Yann-Gaël Guéhéneuc. (2016). **JTExpert at the Fourth Unit Testing Tool Competition**. 9th ACM International Workshop on Search-Based Software Testing, Austin, United States of America (37–40),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
64. José Côté, Pilar Ramirez-Garcia, Gaston Godin, Yann-Gaël Guéhéneuc, Annick Hernandez et les concepteurs des interventions TAVIE. (2016). **Concept et plateforme informatique TAVIE : déploiement d'une pratique infirmière virtuelle au service de la gestion des maladies chroniques**. 1er AVIESAN Forum Franco-Québécois d'Innovation en Santé, Montréal, Canada,
Abstract
Published
Refereed?: Yes, Invited?: No
65. Cristiano Politowski, Lisandra Fontoura, Fábio Petrillo, and Yann-Gaël Guéhéneuc. (2016). **Are the Old Days Gone? A Survey on Actual Software Engineering Processes in Video Game Industry**. 5th ACM International Workshop on Games and Software Engineering, Austin, United States of America (22–28),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

66. Fábio Petrillo, Zéphyrin Soh, Foutse Khomh, Marcelo Pimenta, Carla M. D. S. Freitas, Yann-Gaël Guéhéneuc. (2016). **Towards Understanding Interactive Debugging**. 2nd IEEE International Conference on Software Quality, Reliability, and Security, Vienna, Austria,
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
67. Francis Palma, Javier Gonzalez-Huerta, Naouel Moha, Yann-Gaël Guéhéneuc, and Guy Tremblay. (2015). **Are RESTful APIs Well-Designed? Detection of their Linguistic (Anti)Patterns**. 13th Springer International Conference on Service Oriented Computing, Goa, India (171–187),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
68. Francis Palma, Naouel Moha, and Yann-Gaël Guéhéneuc. (2015). **Specification and Detection of Business Process Antipatterns**. 6th Springer International Conference on E-Technologies, Montréal, Canada (37–52),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
69. Zéphyrin Soh, Thomas Drioul, Pierre-Antoine Rappe, Foutse Khomh, Yann-Gaël Guéhéneuc, and Naji Habra. (2015). **Noises in Interaction Traces Data and Their Impact on Previous Research Studies**. 9th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, Beijing, China (1–10),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
70. Geneviève Rouleau, José Côté, Pilar Ramirez-Garcia, Annick Hernandez, and Yann-Gaël Guéhéneuc. (2015). **VIH-TAVIE et TAVIE en santé : interventions infirmières en cybersanté pour soutenir la prise des antirétroviraux et l'adoption de comportements de santé auprès d'une clientèle VIH**. 83e congrès de l'ACFAS, Québec, Canada,
Paper
Published
Refereed?: Yes, Invited?: No
71. Zohreh Sharafi, Timothy Shaffer, Bonita Sharif, and Yann-Gaël Guéhéneuc. (2015). **Eye-Tracking Metrics in Software Engineering**. 22nd IEEE Asia-Pacific Software Engineering Conference, New Delhi, India (96–103),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
72. Abdelilah Sakti, Gilles Pesant, and Yann-Gaël Guéhéneuc. (2015). **JTExpert at the Third Unit Testing Tool Competition**. 8th ACM/IEEE International Workshop on Search-Based Software Testing, Florence, Italy (52–55),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

73. Jane Huffman Hayes, Yann-Gaël Guéhéneuc, Giuliano Antoniol, Wenbin Li, and Mirek Truszczyński. (2015). **Error Leakage and Wasted Time: Sensitivity Analysis of a Requirements Consistency Checking Process**. 1st Elsevier North American Search Based Software Engineering Symposium, Dearborn, United States of America (1061–1080),
Paper
Published
Refereed?: Yes, Invited?: No
74. Jane Huffman Hayes, Giulio Antoniol, Bram Adams, and Yann-Gaël Guéhéneuc. (2015). **Inherent Characteristics of Traceability Artifacts: Less is More**. 23rd IEEE International Requirements Engineering Conference, Ottawa, Canada (196–201),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
75. S. Amirhossein Abtahizadeh, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2015). **How Green are Cloud Patterns?**. 34th IEEE International Performance Computing and Communications Conference, Nanjing, China (1–8),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
76. Wei Wu, Bram Adams, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2014). **ACUA: API Change and Usage Auditor**. 14th ACM/IEEE International Working Conference on Source Code Analysis and Manipulation, Victoria, Canada (89–94),
Poster
Published
Refereed?: Yes, Invited?: No
- [77.](#) Francis Palma and Naouel Moha and Guy Tremblay, and Yann-Gaël Guéhéneuc. (2014). **Specification and Detection of SOA Antipatterns in Web Services**. 8th Springer European Conference on Software Architecture, Vienna, Austria (58–73),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
78. Mario Linares-Vásquez, Sam Klock, Collin McMillan, Aminata Sabané, Denys Poshyvanyk, and Yann-Gaël Guéhéneuc. (2014). **Domain Matters: Bringing Further Evidence of the Relationships among Anti-patterns, Application Domains, and Quality-related Metrics in Java Mobile Apps**. 22nd IEEE International Conference on Program Comprehension, Hyderabad, India (232–243),
Paper
Published
Refereed?: Yes, Invited?: No
- [79.](#) Gabriele Bavota, Rocco Oliveto, Andrea De Lucia, Andrian Marcus, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2014). **In Medio Stat Virtus: Extract Class Refactoring through Nash Equilibria**. IEEE Software Evolution Week (CSMR-WCRE), Antwerp, Belgium (214–223),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

80. Francis Palma, Johann Dubois, Naouel Moha, and Yann-Gaël Guéhéneuc. (2014). **Detection of REST Patterns and Antipatterns: A Heuristics-based Approach**. 12th Springer International Conference Service-Oriented Computing, Paris, France (230–244),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [81.](#) Francis Palma, Le An, Foutse Khomh, Naouel Moha, and Yann-Gaël Guéhéneuc. (2014). **Investigating the Change-proneness of Service Patterns and Antipatterns**. 7th IEEE International Conference on Service-Oriented Computing and Applications, Matsue, Japan (1–8),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
82. Angela Lozano, Fehmi Jaafar, Kim Mens, and Yann-Gaël Guéhéneuc. (2014). **Clones and Macro Co-changes**. 8th IEEE International Workshop on Software Clones, Antwerp, Belgium (63),
Paper
Published
Refereed?: Yes, Invited?: No
- [83.](#) Fehmi Jaafar and Foutse Khomh and Yann-Gaël Guéhéneuc, and Mohammad Zulkernine. (2014). **Anti-pattern Mutations and Fault-proneness**. 14th IEEE International Conference on Quality Software, Dallas, United States of America (246–255),
Paper
Co-Author
Accepted
Refereed?: Yes, Invited?: No
84. Abdelilah Sakti, Yann-Gaël Guéhéneuc, and Gilles Pesant. (2013). **Constraint-based Fitness Function for Search-Based Software Testing**. 10th Springer International Conference on Integration of Artificial Intelligence and Operations Research in Constraint Programming, Yorktown Heights, United States of America (378–385),
Paper
Published
Refereed?: Yes, Invited?: No
85. Étienne Duclos, Sébastien Le Digabel, Yann-Gaël Guéhéneuc, and Bram Adams. (2013). **ACRE: An Automated Aspect Creator for Testing C++ Applications**. 17th IEEE European Conference on Software Maintenance and Reengineering, Genova, Italy (121–130),
Paper
Published
Refereed?: Yes, Invited?: No
- [86.](#) Aminata Sabané, Massimiliano Di Penta, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2013). **A Study on the Relation between Antipatterns and the Cost of Class Unit Testing**. 17th IEEE European Conference on Software Maintenance and Reengineering, Genova, Italy (167–176),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

87. Zéphyrin Soh, Foutse Khomh, Yann-Gaël Guéhéneuc, Giuliano Antoniol, and Bram Adams. (2013). **On the Effect of Program Exploration on Maintenance Tasks**. 20th IEEE Working Conference on Reverse Engineering, Koblenz, Germany (391–400),
Paper
Published
Refereed?: Yes, Invited?: No
88. Zéphyrin Soh, Foutse Khomh, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2013). **Towards Understanding How Developers Spend Their Effort During Maintenance Activities**. 20th IEEE Working Conference on Reverse Engineering, Koblenz, Germany (152–161),
Paper
Published
Refereed?: Yes, Invited?: No
- [89.](#) Fehmi Jaafar, Yann-Gaël Guéhéneuc, Sylvie Hamel, and Foutse Khomh. (2013). **Mining the Relationship between Anti-patterns Dependencies and Fault-proneness**. 20th IEEE Working Conference on Reverse Engineering, Koblenz, Germany (351–360),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [90.](#) Venera Arnaoudova, Massimiliano Di Penta, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2013). **A New Family of Software Anti-patterns: Linguistic Anti-patterns**. 17th IEEE European Conference on Software Maintenance and Reengineering, Genova, Italy (187–196),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
91. Francis Palma, Naouel Moha, and Yann-Gaël Guéhéneuc. (2013). **Detection of Process Antipatterns: A BPEL Perspective**. 1st Workshop on Methodologies for Robustness Injection into Business Processes, Montréal, Canada (173–177),
Paper
Published
Refereed?: Yes, Invited?: No
- [92.](#) Zohreh Sharafi, Alessandro Marchetto, Angelo Susi, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2013). **An Empirical Study on the Efficiency of Graphical vs. Textual Representations in Requirements Comprehension**. 21st IEEE International Conference on Program Comprehension, San Francisco, United States of America (33–42),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [93.](#) Fehmi Jaafar, Salima Hassaine, and Yann-Gaël Guéhéneuc, Sylvie Hamel, and Bram Adams. (2013). **On the Relationship between Program Evolution and Fault-proneness: An Empirical Study**. 17th IEEE European Conference on Software Maintenance and Reengineering, Genova, Italy (15–24),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

- [94.](#) Abdou Maiga, Nasir Ali, Neelesh Bhattacharya, Aminata Sabané, and Yann-Gaël Guéhéneuc, and Giuliano Antoniol, and Esma Aimeur. (2012). **Support Vector Machines for Anti-pattern Detection**. Short Papers in the 27th ACM/IEEE International Conference on Automated Software Engineering, Essen, Germany (278–281),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [95.](#) Neelesh Bhattacharya, Olfat El-Mahi, Étienne Duclos, Giovanni Beltrame, Giuliano Antoniol, Sébastien Le Digabel, and Yann-Gaël Guéhéneuc. (2012). **Optimizing Threads Schedule Alignments to Expose the Interference Bug Pattern**. 4th Springer International Symposium on Search Based Software Engineering, Riva del Garda, Italy (90–104),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
96. José Côté, Geneviève Rouleau, Yann-Gaël Guéhéneuc, Gaston Godin, Pilar Ramirez-garcia, Annick Hernandez, Géraldine Martorella, and Sylvie Cossette. (2012). **Virtual Nursing Interventions: Tailored Real-Time Support for People Living with a Chronic Health Problem**. 5th JMIR Publications World Congress on Social Media, Mobile Apps, and Internet/Web 2.0 in Health, Medicine and Biomedical Research (Medicine 2.0), Boston, United States of America,
Paper
Published
Refereed?: Yes, Invited?: No
- [97.](#) Abdou Maiga, Nasir Ali, Neelesh Bhattacharya, Aminata Sabané, Yann-Gaël Guéhéneuc, and Esma Aimeur. (2012). **SMURF: A SVM-based Incremental Anti-pattern Detection Approach**. 19th IEEE Working Conference on Reverse Engineering, Kingston, Canada (466–475),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [98.](#) Francis Palma, Hadi Farzin, Yann-Gaël Guéhéneuc, and Naouel Moha. (2012). **Recommendation System for Design Patterns in Software Development: An DPR Overview**. 3rd IEEE International Workshop on Recommendation Systems for Software Engineering, Zurich, Switzerland (1–5),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [99.](#) Nasir Ali, Aminata Sabané, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2012). **Improving Bug Location using Binary Class Relationships**. 12th IEEE International Working Conference on Source Code Analysis and Manipulation, Riva del Garda, Italy (174–183),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

100. José Côté, Geneviève Rouleau, Yann-Gaël Guéhéneuc, Pilar Ramirez-Garcia, Gaston Godin, Joanne Otis, Riyas Fadel, and Cécile Tremblay. (2012). **HIV-MEDIC online: Evaluation of a Web-based intervention to better support people living with HIV (PLHIV) for taking their antiretroviral therapy**. 21th CAHR Canadian Conference on HIV/Aids Research, Montréal, Canada,
Paper
Published
Refereed?: Yes, Invited?: No
- [101.](#) Naouel Moha, Francis Palma, Mathieu Nayrolles, Benjamin Joyen Conseil, Yann-Gaël Guéhéneuc, Benoit Baudry, and Jean-Marc Jézéquel. (2012). **Specification and Detection of SOA Antipatterns**. 10th Springer International Conference on Service-Oriented Computing, Shanghai, China (1-16),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [102.](#) Soumaya Medini, Giuliano Antoniol, Yann-Gaël Guéhéneuc, Massimiliano Di Penta, and Paolo Tonella. (2012). **SCAN: An Approach to Label and Relate Execution Trace Segments**. 19th IEEE Working Conference on Reverse Engineering, Kingston, Canada (135–144),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [103.](#) Surafel Lemma Abebe, Venera Arnaoudova, Paolo Tonella, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2012). **Can Lexicon Bad Smells improve Fault Prediction?**. 19th Working Conference on Reverse Engineering, Kingston, Canada (235–244),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [104.](#) Mathieu Nayrolles, Francis Palma, Naouel Moha, and Yann-Gaël Guéhéneuc. (2012). **SODA: A Tool Support for the Detection of SOA Antipatterns**. 10th Springer International Conference on Service-Oriented Computing, Shanghai, China (451–455),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [105.](#) Massimiliano Di Penta, Giuliano Antoniol, Daniel M. German, and Yann-Gaël Guéhéneuc, and Bram Adams. (2012). **Five Days of Empirical Software Engineering: The PASED Experience**. Software Engineering Education in the 34th IEEE International Conference on Software Engineering, Zurich, Switzerland (1255–1258),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [106.](#) Salima Hassaine, Yann-Gaël Guéhéneuc, Sylvie Hamel, and Giuliano Antoniol. (2012). **ADVISE: Architectural Decay in Software Evolution**. 16th IEEE European Conference on Software Maintenance and Reengineering, Szeged, Hungary (267–276),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

- [107.](#) Nasir Ali, Zohreh Sharafi, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2012). **An Empirical Study on Requirements Traceability using Eye-tracking**. 28th IEEE International Conference on Software Maintenance, Trento, Italy (191–200),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [108.](#) Abdelilah Sakti, Yann-Gaël Guéhéneuc, and Gilles Pesant. (2012). **Boosting Search-based Testing by Using Constraint-based Testing**. 4th Springer International Symposium Search Based Software Engineering, Riva del Garda, Italy (213–227),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [109.](#) Latifa Guerrouj, Philippe Galinier, Yann-Gaël Guéhéneuc, Giuliano Antoniol, and Massimiliano Di Penta. (2012). **TRIS: A Fast and Accurate Identifiers Splitting and Expansion Algorithm**. 19th IEEE Working Conference on Reverse Engineering, Kingston, Canada (103–112),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
110. Zohreh Sharafi, Zéphyrin Soh, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2012). **Women and Men - Different but Equal: On the Impact of Identifier Style on Source Code reading**. 20th IEEE International Conference on Program Comprehension, Passau, Germany (27–36),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
111. Zéphyrin Soh, Zohreh Sharafi, and Bertrand Van Den Plas, Gerardo Cepeda Porras, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2012). **Professional Status and Expertise for UML Class Diagram Comprehension: An Empirical Study**. 20th IEEE International Conference on Program Comprehension, Passau, Germany (163–172),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [112.](#) Ahmed Belderrar, Segla Kpodjedo, Yann-Gaël Guéhéneuc, Giuliano Antoniol, and Philippe Galinier. (2011). **Sub-graph Mining: Identifying Micro-architectures in Evolving Object-oriented Software**. 15th IEEE European Conference on Software Maintenance and Reengineering, Oldenburg, Germany (171-180),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [113.](#) Fehmi Jaafar, Yann-Gaël Guéhéneuc, Sylvie Hamel, and Giuliano Antoniol. (2011). **An Exploratory Study of Macro Co-changes**. 18th IEEE Working Conference on Reverse Engineering, Limerick, Ireland (325-334),
Paper
Published
Refereed?: Yes, Invited?: No

- [114.](#) Günter Kriesel, Alexander Binun, Péter Hegedüs, Lajos Jen? Fülöp, Alexander Chatzigeorgiou, Yann-Gaël Guéhéneuc, and Nikolaos Tsantalis. (2011). **DPDX: Towards a Common Result Exchange Format for Design Pattern Detection Tools**. 15th IEEE European Conference on Software Maintenance and Reengineering, Oldenburg, Germany (232-235),
Paper
Published
Refereed?: Yes, Invited?: No
- [115.](#) Marwen Abbes, Foutse Khomh, and Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2011). **An Empirical Study of the Impact of Two Antipatterns, Blob and Spaghetti Code, on Program Comprehension**. 15th IEEE European Conference on Software Maintenance and Reengineering, Oldenburg, Germany (181-190),
Paper
Published
Refereed?: Yes, Invited?: No
- [116.](#) Nasir Ali, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2011). **Trust-based Requirements Traceability**. 19th IEEE International Conference on Program Comprehension, Kingston, Canada (111-120),
Paper
Published
Refereed?: Yes, Invited?: No
- [117.](#) Soumaya Medini, Philippe Galinier, and Massimiliano Di Penta, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2011). **A Fast Algorithm to Locate Concepts in Execution Traces**. 3rd Springer International Symposium Search Based Software Engineering, Szeged, Hungary (252-266),
Paper
Published
Refereed?: Yes, Invited?: No
- [118.](#) Nasir Ali, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2011). **Requirements Traceability for Object Oriented Systems by Partitioning Source Code**. 18th IEEE Working Conference on Reverse Engineering, Limerick, Ireland (45-54),
Paper
Published
Refereed?: Yes, Invited?: No
- [119.](#) Neelesh Bhattacharya, Abdelilah Sakti, Giuliano Antoniol, Yann-Gaël Guéhéneuc, and Gilles Pesant. (2011). **Divide-by-zero Exception Raising via Branch Coverage**. 3rd Springer International Symposium on Search Based Software Engineering, Szeged, Hungary (204-218),
Paper
Published
Refereed?: Yes, Invited?: No
- [120.](#) Rocco Oliveto, Foutse Khomh, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2011). **Numerical Signatures of Antipatterns: An Approach Based on B-Splines**. 15th European Conference on Software Maintenance and Reengineering, Oldenburg, Germany (248-251),
Paper
Published
Refereed?: Yes, Invited?: No
- [121.](#) Nasir Ali, Wei Wu, Giuliano Antoniol, Massimiliano Di Penta, Yann-Gaël Guéhéneuc, and Jane Huffman Hayes. (2011). **MoMS: Multi-objective Miniaturization of Software**. 27th IEEE International Conference on Software Maintenance, Williamsburg, United States of America (153-162),
Paper
Published
Refereed?: Yes, Invited?: No

- [122.](#) Nioosha Madani, Latifa Guerrouj, Massimiliano Di Penta, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2011). **Recognizing Words from Source Code Identifiers using Speech Recognition Techniques**. 15th IEEE European Conference on Software Maintenance and Reengineering, Oldenburg, Germany (68-77),
Paper
Published
Refereed?: Yes, Invited?: No
- [123.](#) Salima Hassaine, Ferdaous Boughanmi, Yann-Gaël Guéhéneuc, Sylvie Hamel, and Giuliano Antoniol. (2011). **Change Impact Analysis: An Earthquake Metaphor**. 19th IEEE International Conference on Program Comprehension, Kingston, Canada (209-210),
Poster
Published
Refereed?: Yes, Invited?: No
- [124.](#) Fehmi Jaafar, Yann-Gaël Guéhéneuc, Sylvie Hamel, and Giuliano Antoniol. (2011). **Detecting Asynchrony and Dephase Change Patterns by Mining Software Repositories**. 18th IEEE Working Conference on Reverse Engineering, Limerick, Ireland (77-106),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No
- [125.](#) Salima Hassaine, Ferdaous Boughanmi, Yann-Gaël Guéhéneuc, Sylvie Hamel, and Giuliano Antoniol. (2011). **A Seismology-inspired Approach to Study Change Propagation**. 27th IEEE International Conference on Software Maintenance, Williamsburg, United States of America (53-62),
Paper
Published
Refereed?: Yes, Invited?: No
- [126.](#) Laleh M. Eshkevari, Venera Arnaoudova, Massimiliano Di Penta, Rocco Oliveto, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2011). **An Exploratory Study of Identifier Renamings**. 8th ACM International Working Conference on Mining Software Repositories, Waikiki, United States of America (33-42),
Paper
Published
Refereed?: Yes, Invited?: No
- [127.](#) Asadi, Fatemeh and Antoniol, Giuliano and Gueheneuc, Yann-Gael. (2010). Concept location with genetic algorithms: A comparison of four distributed architectures. Proceedings - 2nd International Symposium on Search Based Software Engineering, SSBSE 2010. , (153 - 162),
- [128.](#) Wei Wu, Yann-Gaël Guéhéneuc, Giuliano Antoniol, and Miryung Kim. (2010). **AURA: A hybrid approach to identify framework evolution**. Proceedings - International Conference on Software Engineering. 32nd ACM/IEEE International Conference on Software Engineering, Cape Town, South Africa, Republic of (325 - 334),
Paper
Published
Refereed?: Yes, Invited?: No
- [129.](#) Fatemeh Asadi, Massimiliano Di Penta, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2010). **A Heuristic-based Approach to Identify Concepts in Execution Traces**. 14th IEEE European Conference on Software Maintenance and Reengineering, Madrid, Spain (31-40),
Paper
Co-Author
Published
Refereed?: Yes, Invited?: No

- [130.](#) Bavota, Gabriele and Oliveto, Rocco and De Lucia, Andrea and Antoniol, Giuliano and Gueheneuc, Yann-Gael. (2010). Playing with refactoring: Identifying extract class opportunities through game theory. IEEE International Conference on Software Maintenance, ICSM. , (IEEE Computer Societ),
- [131.](#) Arnaoudova, Venera and Eshkevari, Laleh and Oliveto, Rocco and Gueheneuc, Yann-Gael and Antoniol, Giuliano. (2010). Physical and conceptual identifier dispersion: Measures and relation to fault proneness. IEEE International Conference on Software Maintenance, ICSM. , (IEEE Computer Societ),
- [132.](#) Salima Hassaine, Foutse Khomh, Yann-Gaël Guéhéneuc, and Sylvie Hamel. (2010). **IDS: An Immune-inspired Approach for the Detection of Software Design Smells**. 7th IEEE International Conference on the Quality of Information and Communications Technology, Porto, Portugal (343-348),
Paper
Published
Refereed?: Yes, Invited?: No
- [133.](#) Massimiliano Di Penta, Daniel M. German, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2010). **An Exploratory Study of the Evolution of Software Licensing**. 32nd ACM/IEEE International Conference on Software Engineering, Cape Town, South Africa, Republic of (145-154),
Paper
Published
Refereed?: Yes, Invited?: No
- [134.](#) German, Daniel M. and Di Penta, Massimiliano and Gueheneuc, Yann-Gael and Antoniol, Giuliano. (2009). Code siblings: Technical and legal implications of copying code between applications. Proceedings of the 2009 6th IEEE International Working Conference on Mining Software Repositories, M. , (81 - 90),
- [135.](#) Khomh, Foutse and Di Penta, Massimiliano and Gueheneuc, Yann-Gael. (2009). An exploratory study of the impact of code smells on software change-proneness. Proceedings - Working Conference on Reverse Engineering, WCRE. , (75 - 84),
- [136.](#) Falcone, Giovanni and Gueheneuc, Yann-Gael and Lange, Christian F. J. and Porkolab, Zoltan and Sahraoui, Houari. (2009). Quantitative approaches in object-oriented software engineering: Report on the 12th workshop QAOOSE at ECOOP 2008. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and . , (77 - 86),
- [137.](#) Vaucher, Stephane and Khomh, Foutse and Moha, Naouel and Gueheneuc, Yann-Gael. (2009). Tracking design smells: Lessons from a study of God classes. Proceedings - Working Conference on Reverse Engineering, WCRE. , (145 - 154),
- [138.](#) Sébastien Jeanmart, Yann-Gaël Guéhéneuc, Houari Sahraoui, and Naji Habra. (2009). **Impact of the Visitor Pattern on Program Comprehension and Maintenance**. 2009 3rd International Symposium on Empirical Software Engineering and Measurement, ESEM 2009. 3rd IEEE International Symposium on Empirical Software Engineering and Measurement, Lake Buena Vista, United States of America (69 - 78),
Paper
Refereed?: Yes, Invited?: No
- [139.](#) Khomh, Foutse and Gueheneuc, Yann-Gael and Antoniol, Giuliano. (2009). Playing roles in design patterns: An empirical descriptive and analytic study. IEEE International Conference on Software Maintenance, ICSM. , (83 - 92),
- [140.](#) Khomh, Foutse and Gueheneuc, Yann-Gael. (2008). Do design patterns impact software quality positively?. Proceedings of the European Conference on Software Maintenance and Reengineering, CSMR. , (274 - 278),
- [141.](#) Khomh, Foutse and Gueheneuc, Yann-Gael. (2008). DEQUALITE: Building design-based software quality models. PLoP08 - 15th Conference on Pattern Languages of Programs, Proceedings. , (Hillside Group; ACM),

- [142.](#) Antoniol, Giuliano and Hayes, Jane Huffman and Gueheneuc, Yann-Gael and Di Penta, Massimiliano. (2008). Reuse or rewrite: Combining textual, static, and dynamic analyses to assess the cost of keeping a system up-to-date. IEEE International Conference on Software Maintenance, ICSM. , (147 - 156),
- [143.](#) Gueheneuc, Yann-Gael and Lange, Christian F. J. and Sahraoui, Houari A. and Falcone, Giovanni and Lanza, Michele and Calero, Coral and Brito E Abreu, Fernando. (2008). Quantitative approaches in object-oriented software engineering. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and . , (166 - 170),
- [144.](#) Denier, Simon and Gueheneuc, Yann-Gael. (2008). Mendel: A model, metrics, and rules to understand class hierarchies. IEEE International Conference on Program Comprehension. , (143 - 152),
- [145.](#) Antoniol, Giuliano and Ayari, Kamel and Di Penta, Massimiliano and Khomh, Foutse and Gueheneuc, Yann-Gael. (2008). Is it a bug or an enhancement? A text-based approach to classify change requests. Proceedings of the 2008 Conference of the Center for Advanced Studies, CASCON'08. , (IBM Toronto Software),
- [146.](#) Hayes, Jane Huffman and Antoniol, Giuliano and Gueheneuc, Yann-Gael. (2008). Prereqir: Recovering pre-requirements via cluster analysis. Proceedings - Working Conference on Reverse Engineering, WCRE. , (165 - 174),
- [147.](#) Moha, Naouel and Rezgui, Jihene and Gueheneuc, Yann-Gael and Valtchev, Petko and El Boussaidi, Ghizlane. (2008). Using FCA to suggest refactorings to correct design defects. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and . , (269 - 275),
- [148.](#) Moha, Naouel and Rouane Hacene, Amine Mohamed and Valtchev, Petko and Gueheneuc, Yann-Gael. (2008). Refactorings of design defects using relational concept analysis. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and . , (289 - 304),
- [149.](#) Moha, Naouel and Gueheneuc, Yann-Gael and Le Meur, Anne-Francoise and Duchien, Laurence. (2008). A domain analysis to specify design defects and generate detection algorithms. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and . , (276 - 291),
- [150.](#) Massimiliano Di Penta, Luigi Cerulo, Yann-Gaël Guéhéneuc, and Giuliano Antoniol. (2008). An empirical study of the relationships between design pattern roles and class change proneness. IEEE International Conference on Software Maintenance, ICSM. , (217 - 226),
- [151.](#) Eaddy, Marc and Aho, Alfred V. and Antoniol, Giuliano and Gueheneuc, Yann-Gael. (2008). CERBERUS: Tracing requirements to source code using information retrieval, dynamic analysis, and program analysis. IEEE International Conference on Program Comprehension. , (53 - 62),
152. Wuyts, Roel and Demeyer, Serge and Gueheneuc, Yann-Gael and Mens, Kim and Ducasse, Stephane. (2007). Object-oriented reengineering. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and . , (69 - 71),
- [153.](#) Gueheneuc, Yann-Gael. (2007). Ptidej: A flexible reverse engineering tool suite. IEEE International Conference on Software Maintenance, ICSM. , (529 - 530),
- [154.](#) Moha, Naouel and Gueheneuc, Yann-Gael. (2007). PTIDEJ and DECOR: Identification of design patterns and design defects. Proceedings of the Conference on Object-Oriented Programming Systems, Languages, and Applications, O. , (868 - 869),
155. Moha, Naouel and Gueheneuc, Yann-Gael. (2007). Ptidej and decor: identification of design patterns and design defects. Proceedings of the Conference on Object-Oriented Programming Systems, Languages, and Applications, O. , (868 - 869),
- [156.](#) Antoniol, Giuliano and Gueheneuc, Yann-Gael and Merlo, Ettore and Tonella, Paolo. (2007). Mining the lexicon used by programmers during software evolution. IEEE International Conference on Software Maintenance, ICSM. , (14 - 23),

157. Brito e Abreu, Fernando and Calero, Coral and Gueheneuc, Yann-Gael and Lanza, Michele and Sahraoui, Houari. (2007). Quantitative approaches in object-oriented software engineering. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and . , (87 - 96),
- [158.](#) Moha, Naouel and Gueheneuc, Yann-Gael. (2007). DECOR: A tool for the detection of design defects. ASE'07 - 2007 ACM/IEEE International Conference on Automated Software Engineering. , (527 - 528),
- [159.](#) Bouktif, Salah and Gueheneuc, Yann-Gael and Antoniol, Giuliano. (2006). Extracting change-patterns from CVS repositories. Proceedings - Working Conference on Reverse Engineering, WCRE. , (221 - 230),
- [160.](#) Gueheneuc, Yann-Gael. (2006). TAUPE: Towards understanding program comprehension. Proceedings of the 2006 Conference of the Center for Advanced Studies on Collaborative Research, CAS. , (IBM Toronto Lab; CAS),
- [161.](#) Gueheneuc, Yann-Gael and Mens, Kim and Wuyts, Roel. (2006). A comparative framework for design recovery tools. Proceedings of the European Conference on Software Maintenance and Reengineering, CSMR. , (123 - 132),
- [162.](#) Poshyvanyk, Denys and Gueheneuc, Yann-Gael and Marcus, Andrian and Antoniol, Giuliano and Rajlich, Vaclav. (2006). Combining probabilistic ranking and latent semantic indexing for feature identification. IEEE International Conference on Program Comprehension. , (137 - 146),
- [163.](#) Moha, Naouel and Gueheneuc, Yann-Gael and Leduc, Pierre. (2006). Automatic generation of detection algorithms for design defects. Proceedings - 21st IEEE/ACM International Conference on Automated Software Engineering, ASE 2006. , (297 - 300),
- [164.](#) Kaczor, Olivier and Gueheneuc, Yann-Gael and Hamel, Sylvie. (2006). Efficient identification of design patterns with bit-vector algorithm. Proceedings of the European Conference on Software Maintenance and Reengineering, CSMR. , (175 - 184),
- [165.](#) Arcelli, Francesca and Raibulet, Claudia and Gueheneuc, Yann-Gael and Antoniol, Giuliano and Mc Smith, Jason. (2006). Workshop on design pattern detection for reverse engineering - DPD4RE 2006. Proceedings - Working Conference on Reverse Engineering, WCRE. , (316 -),
- [166.](#) Antoniol, Giuliano and Gueheneuc, Yann-Gael. (2006). Feature identification: An epidemiological metaphor. IEEE Transactions on Software Engineering. , (627 - 641),
- [167.](#) Antoniol, Giuliano and Gueheneuc, Yann-Gael. (2005). Feature identification: A novel approach and a case study. IEEE International Conference on Software Maintenance, ICSM. , (357 - 368),
- [168.](#) Antoniol, Giuliano and Merlo, Ettore and Gueheneuc, Yann-Gael and Sahraoui, Houari. (2005). On feature traceability in object oriented programs. Proceedings - The 3rd ACM Int. Workshop on Traceability in Emerging Forms of Software Engineering, T. , (73 - 78),
- [169.](#) Gueheneuc, Yann-Gael and Antoniol, Giuliano. (2005). Report on the 1st international workshop on design pattern theory and practice. Proceedings - 13th IEEE International Workshop on Software Technology and Engineering Practice, STEP. , (193 - 195),
- [170.](#) Gueheneuc, Yann-Gael and Sahraoui, Houari and Zaidi, Farouk. (2004). Fingerprinting design patterns. Proceedings - Working Conference on Reverse Engineering, WCRE. , (172 - 181),
- [171.](#) Gueheneuc, Yann-Gael and Albin-Amiot, Herve. (2004). Recovering binary class Relationships: Putting icing on the UML cake. ACM SIGPLAN Notices. , (301 - 314),
172. Gueheneuc, Yann-Gael and Albin-Amiot, Herve. (2004). Recovering Binary Class Relationships: Putting Icing on the UML Cake. 19th Annual ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOP. , (301 - 314),
173. Gueheneuc, Yann-Gael. (2004). A systematic study of UML class diagram constituents for their abstract and precise recovery. Proceedings - Asia-Pacific Software Engineering Conference, APSEC. , (265 - 274),
174. Gueheneuc, Yann-Gael. (2004). Abstract and precise recovery of UML class diagram constituents. IEEE International Conference on Software Maintenance, ICSM. , (523 -),

- [175.](#) Farias, Andres and Gueheneuc, Yann-Gael. (2003). On the coherence of component protocols. Electronic Notes in Theoretical Computer Science. , (47 - 58),
- [176.](#) Yann-Gaël Guéhéneuc and Hervé Albin-Amiot. (2001). Using Design Patterns and Constraints to Automate the Detection and Correction of Inter-class Design Defects. TOOLS, (296-306),
Paper
Published
Refereed?: Yes, Invited?: No