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Template: NSERC_Researcher

Dr. Yann-Gaël Guéhéneuc

Correspondence language: French

Sex: Male

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

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

Telephone

Fax	1-514-848-2830
Work (*)	1-514-848-2414 extension: 7110

Email

Work (*)	yann-gael.gueheneuc@concordia.ca
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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

- 2003/6 Doctorate, Software Engineering, Université de Nantes / École des Mines de Nantes
Supervisors: Pierre Cointe, 2000/6 - 2003/6
- 1998/10 Diploma, Software Engineering, Université de Nantes
- 1998/10 Diploma, Software Engineering, École des Mines de Nantes
- 1993/7 Bachelor's, Mathematics and Technic, Lycée Technologique Livet

Recognitions

- 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 ICSOC'12
Springer
Distinction
Runner-up Best Paper Award at ICSOC'12
- 2012/9 Best Paper Award at WCRE'12
IEEE Computer Society
Distinction
Best Paper Award at WCRE'12
- 2011/3 Best paper award at CSMR'11
IEEE Computer Society
Distinction
Best paper award at CSMR'11

User Profile

Research Specialization Keywords: Architecture, Design, Features, Idioms, Internet of Things, Maintenance, Program Comprehension, Software Quality, Testing

Employment

2017/8	Full Professor Department of Computer Science and Software Engineering, Faculty of Engineering and Computer Science, Concordia University Full-time, Professor Tenure Status: Tenure
2012/6 - 2017/8	Full Professor Département de génie informatique et génie logiciel, Université de Montréal, École Polytechnique de Montréal Full-time Tenure Status: Tenure
2013/3 - 2014/4	Guest Professor Computer Science, Yonsei University and Seoul National University Full-time Tenure Status: Non Tenure Track
2008/6 - 2012/5	Associate Professor Département de Génie informatique et Génie logiciel, Université de Montréal, École Polytechnique de Montréal Full-time Tenure Status: Tenure
2008/5 - 2008/6	Associate Professor Informatique et recherche opérationnelle, Université de Montréal, Université de Montréal Full-time Tenure Status: Tenure
2003/8 - 2008/5	Assistant Professor Informatique et recherche opérationnelle, Université de Montréal, Université de Montréal Full-time Tenure Status: Tenure Track
1999/12 - 2001/5	Software Developer Object Technology International
1998/12 - 2000/4	Invited Researcher School of Computer Science, Université de Montréal, Carleton University Full-time Tenure Status: Non Tenure Track

Research Funding History

Awarded [n=5]

2017/9 - 2019/8 Principal Investigator	Startup, Grant Funding Sources: Concordia University Startup Total Funding - 75,000 Portion of Funding Received - 100 Funding Competitive?: No
2014/5 - 2019/4 Principal Applicant	Patterns in Mixed-language Systems, Research Chair Funding Sources: Canada Research Chairs (CRC)

	Tier 2 Total Funding - 500,000 Portion of Funding Received - 25 Funding Competitive?: Yes
2014/5 - 2018/12 Co-applicant	REUSE, Grant Funding Sources: Korea National Research and Development Projects Team Project Total Funding - 30,000 Portion of Funding Received - 10 Funding Competitive?: Yes
2015/5 - 2018/4 Co-applicant	Réingénierie architecturale orientée services de logiciels légataires orientés objet, Grant Funding Sources: Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT) Team Grant Total Funding - 144,000 Portion of Funding Received - 28,800 Funding Competitive?: Yes
2012/5 - 2018/4 Principal Investigator	Building Practical Software Quality Models, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Subvention à la découverte Total Funding - 204,000 Portion of Funding Received - 100 Funding Competitive?: Yes
Completed [n=11]	
2017/9 - 2018/8 Principal Investigator	Applying Machine Learning Techniques to the Identification and Correction of Anomalies in Transaction Sale Data, Grant Funding Sources: MITACS and SAP Accelerate Total Funding - 30,000 Portion of Funding Received - 100 Funding Competitive?: Yes
2012/5 - 2017/4 Principal Investigator	ICD Management, Grant Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC) Recherche et développement collaborative Total Funding - 132,000 Portion of Funding Received - 33 Funding Competitive?: Yes Co-applicant : Pierre Labrèche; Co-investigator : Roger Champagne; Yvan Labiche; Collaborator : Claire Mangado; Giuliano Antoniol; John Mullins
2013/9 - 2016/8 Co-applicant	Evaluation of a Tailored Virtual Intervention as an Instrument of Prevention and Therapeutic Support to Improve the Health of PLHIV and Reduce Comorbidity Associated with HIV, Grant

Funding Sources:

Canadian Institutes of Health Research (CIHR)
 HIV
 Total Funding - 421,224
 Portion of Funding Received - 1
 Funding Competitive?: Yes

2013/9 - 2016/4
 Co-applicant

A Recommendation System for Managing the Configuration of Multi-tier Systems, Grant

Funding Sources:

Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT)
 Team project
 Total Funding - 126,000
 Portion of Funding Received - 1
 Funding Competitive?: Yes

2016/1 - 2016/4
 Principal Investigator

NSERC Day on Software Engineering for Cyber-physical Systems, Grant

Funding Sources:

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

2015/9 - 2015/12
 Principal Investigator

Ptidej Tool Suite, Grant

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
 Principal Investigator

Software Patterns and Patterns of Software, Research Chair

Funding Sources:

Canada Research Chairs (CRC)
 Tier 2
 Total Funding - 500,000
 Portion of Funding Received - 50
 Funding Competitive?: Yes

2009/5 - 2014/4
 Principal Investigator

Software Patterns and Patterns of Software, Grant

Funding Sources:

Canada Foundation for Innovation (CFI)
 Tier II
 Total Funding - 103,280
 Portion of Funding Received - 100
 Funding Competitive?: Yes

Principal Investigator : Yann-Gaël Guéhéneuc

2012/1 - 2013/4
 Principal Investigator

Operationalizing Quality Evaluation for Heterogeneous Legacy Systems, Grant

Funding Sources:

MITACS and Benchmark Consulting
 Accelerate
 Total Funding - 80,000
 Portion of Funding Received - 100

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

Funding Sources:

Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT)

Projet en équipe

Total Funding - 168,900

Portion of Funding Received - 50

Funding Competitive?: Yes

Co-investigator : Giuliano Antoniol;

Principal Investigator : Gilles Pesant

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

Funding Sources:

Fonds de la Recherche en Santé du Québec (FRSQ)

Équipe

Total Funding - 229,160

Portion of Funding Received - 1

Funding Competitive?: Yes

Principal Investigator : José Côté

Under Review [n=5]

2018/5 - 2025/4

Principal Investigator

Empirical Software Engineering for the Internet of Things, Research Chair

Funding Sources:

Canada Research Chairs (CRC)

Tier 1

Total Funding - 1,400,000

Portion of Funding Received - 100

Funding Competitive?: Yes

2018/5 - 2021/4

Co-applicant

Development, Optimisation, and Evaluation of a Digital Learning Environment for Reducing Cardiometabolic Risks, Grant

Funding Sources:

Canadian Institutes of Health Research (CIHR)

Project

Total Funding - 270,200

Portion of Funding Received - 10

Funding Competitive?: Yes

Principal Investigator : José Côté; Sylvie Cossette

2018/5 - 2021/4

Co-applicant

Development, Optimisation, and Evaluation of a Digital Learning Environment for Reducing Cardiometabolic Risks - Study MA_SANTÉ@COEUR, Grant

Funding Sources:

Heart and Stroke Foundation of Canada (HSFC)

Project

Total Funding - 270,000

Portion of Funding Received - 10

Funding Competitive?: Yes

	Principal Investigator : José Côté; Sylvie Cossette
2017/11 - 2019/12 Co-applicant	Development, Optimisation, and Evaluation of a Digital Learning Environment for Reducing Cardiometabolic Risks, Grant Funding Sources: IVADO Fundamental Research Projects Total Funding - 200,000 Portion of Funding Received - 1 Funding Competitive?: Yes Principal Investigator : José Côté; Sylvie Cossette
2017/11 - 2019/12 Co-applicant	Development, Optimisation, and Evaluation of a Digital Adaptable Learning Environment for Reducing Cardiometabolic Risks, Grant Funding Sources: Canadian Institutes of Health Research (CIHR) Personalized Health - Catalyst Grant Total Funding - 199,994 Portion of Funding Received - 1 Funding Competitive?: Yes Principal Investigator : José Côté; Sylvie Cossette

Student/Postdoctoral Supervision

Master's Thesis [n=6]

2016/9 - 2018/4 Co-Supervisor	Atefeh Meshinchi (In Progress) , Polytechnique Montréal Thesis/Project Title: <i>Efficient SDN Configuration</i> Present Position: M.Sc. Student
2016/5 - 2017/12 Co-Supervisor	Mahdis Zolfagharinia (In Progress) , Polytechnique Montréal Thesis/Project Title: <i>Leveraging Build Systems for Migration</i> Present Position: M.Sc. Student
2015/1 - 2016/8 Co-Supervisor	Béchir Bani (Completed) , Polytechnique Montréal Thesis/Project Title: <i>The Impact of Cloud Patterns and Databases on the Energy Consumption of Cloud Applications</i> Present Position: Business Intelligence Engineer, Ubisoft Montréal
2011/1 - 2012/8 Co-Supervisor	Duclos Étienne (Completed) , Polytechnique Montréal Thesis/Project Title: <i>ACRE : un générateur automatique d'aspect pour tester des logiciels écrits en C++</i> Present Position: Automation Engineer, Intel Security
2010/1 - 2012/12 Co-Supervisor	Neelesh Bhattacharya (Completed) , Polytechnique Montréal Thesis/Project Title: <i>Test Data Generation for Exposing Interference Bugs in Multi-threaded Systems</i> Present Position: Financial Solutions Analyst, BNP Paribas
2010/1 - 2012/12 Co-Supervisor	Boughanmi Ferdaous (Completed) , Polytechnique Montréal Thesis/Project Title: <i>Source Code and License Statement Co-evolution</i> Present Position: Lecturer, Cégep Bois-de-Bologne

Doctorate [n=22]

2017/5 - 2017/8 Co-Supervisor	Fatima Sabir (In Progress) , COMSATS Institute of Information Technology Lahore Thesis/Project Title: Quality of SOA Systems Present Position: Ph.D. Student
2016/5 - 2020/8 Principal Supervisor	Manel Abdellatif (In Progress) , Polytechnique Montréal Thesis/Project Title: On the Migration towards Service-oriented Architectures Present Position: Ph.D. Student
2016/5 - 2020/8 Principal Supervisor	Manel Grichi (In Progress) , Polytechnique Montréal Thesis/Project Title: <i>Change Impact Analyses in Multi-language Systems</i> Present Position: Ph.D. Student
2016/5 - 2020/8 Principal Supervisor	Mouna Abidi (In Progress) , Polytechnique Montréal Thesis/Project Title: <i>Design (Anti-)Patterns in Multi-language Systems</i> Present Position: Ph.D. Student
2016/5 - 2020/8 Principal Supervisor	Luis Diego Correa Arias (In Progress) , Polytechnique Montréal Thesis/Project Title: <i>Control and Data Flow Algorithms for Multi-language Systems</i> Present Position: Ph.D. Student
2015/9 - 2017/4 Co-Supervisor	Fabio Petrillo (Completed) , Universidade Federal do Rio Grande do Sul Thesis/Project Title: <i>Swarm Debugging: the Collective Debugging Intelligence of the Crowd</i> Present Position: Research Associate, Concordia University
2015/1 - 2018/12 Co-Supervisor	Zeinab Kermansaravi (In Progress) , Polytechnique Montréal Thesis/Project Title: <i>Mutations of Software Patterns</i> Present Position: Ph.D. Student
2014/9 - 2017/12 Co-Supervisor	Rubén Saborido-Infantes (In Progress) , Polytechnique Montréal Thesis/Project Title: <i>Analysing and Understanding Energy Consumption of Software</i> Present Position: Ph.D. Student
2011/9 - 2015/8 Principal Supervisor	Francis Palma (Completed) , Polytechnique Montréal Thesis/Project Title: <i>Unifying Service Oriented Technologies for the Specification and Detection of their Antipatterns</i> Present Position: Professor, Linnaeus University
2011/1 - 2015/12 Principal Supervisor	Zépyrin Soh (Completed) , Polytechnique Montréal Thesis/Project Title: <i>Improving Program Comprehension and Recommendation Systems using Developers' Context</i> Present Position: Software Developer, Adacel
2010/9 - 2014/11 Principal Supervisor	Medini Soumaya (Completed) , Polytechnique Montréal Thesis/Project Title: <i>Concepts Extraction from Execution Traces</i> Present Position: Research Associate, Concordia University
2010/9 - 2015/5 Principal Supervisor	Sharafi Zohreh (Completed) , Polytechnique Montréal Thesis/Project Title: <i>On the Influence of Representation Type and Gender on Recognition Tasks of Program Comprehension</i> Present Position: Technology Associate, Morgan Stanley
2010/5 - 2014/12 Principal Supervisor	Wu Wei (Completed) , Polytechnique Montréal Thesis/Project Title: <i>Understanding and Tooling Framework API Evolution</i> Present Position: Software Developer, SAP
2010/1 - 2014/12 Co-Supervisor	Sakti Abdelilah (Completed) , Polytechnique Montréal Thesis/Project Title: <i>Automatic Test Data Generation using Constraint Programming and Search Based Software Engineering Techniques</i> Present Position: Senior Research Scientist, United Technologies Research Center

- 2009/9 - 2012/7
Principal Supervisor Ali Nasir (Completed) , Polytechnique Montréal
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 Sabané Aminata (Completed) , Polytechnique Montréal
Thesis/Project Title: *Reducing Object-oriented Testing through the Analysis of Antipatterns*
Present Position: Lecturer, University of Ouagadougou
- 2009/9 - 2013/12
Principal Supervisor Jaafar Fehmi (Completed) , Université de Montréal
Thesis/Project Title: *Analysing Artefacts Dependencies to Evolving Software Systems*
Present Position: Professor, Concordia University of Edmonton
- 2009/9 - 2014/8
Principal Supervisor Arnaoudova Venera (Completed) , Polytechnique Montréal
Thesis/Project Title: *Towards Improving the Code Lexicon and its Consistency*
Present Position: Assistant Professor, Washington State University
- 2009/9 - 2013/8
Co-Supervisor Guerrouj Latifa (Completed) , Polytechnique Montréal
Thesis/Project Title: *Context-Aware Source Code Vocabulary Normalization for Software Maintenance*
Present Position: Professor, École de Technologie Supérieure
- 2009/5 - 2015/12
Co-Supervisor Eshkevari Laleh (Completed) , Polytechnique Montréal
Thesis/Project Title: *Automatic Detection and Classification of Identifiers*
Present Position: Post-doctoral Researcher, Concordia University
- 2008/9 - 2012/11
Principal Supervisor Maiga Abdou (Completed) , Université de Montréal
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 Hassaine Salima (Completed) , Université de Montréal
Thesis/Project Title: *Evaluating Design Decay during Software Evolution*
Present Position: N/A, N/A
- Post-doctorate [n=4]**
- 2016/1 - 2017/7
Co-Supervisor Anas Shatnawi (Completed) , UQÀM
Thesis/Project Title: *Service-oriented Reengineering*
Present Position: Post-doctoral Researcher, University of Milan
- 2015/4 - 2016/2
Co-Supervisor Carla De Monteiro Marques (Completed) , Polytechnique Montréal
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
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
Thesis/Project Title: *Graph Matching*
Present Position: Professor, École de Technologie Supérieure
- Research Associate [n=1]**
- 2017/9 - 2018/8
Principal Supervisor Fábio Petrillo (In Progress) , Concordia University
Thesis/Project Title: *Alleviating the New Software Engineering Crisis*
Present Position: Post-doctoral Researcher

Publications

Journal Articles

1. Aminata Sabané, Yann-Gaël Guéhéneuc, Venera Arnaoudova, and Giuliano Antoniol. (2017). **Fragile Base-class Problem, Problem?**. Springer Journal of Empirical Software Engineering. 22(5): 2612–2657.
Published
Refereed?: Yes
2. 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. 25(3): 641–670.
Published
Refereed?: Yes
3. Rubén Saborido, Foutse Khomh, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2017). **Comprehension of Ads-supported and Paid Android Applications: Are They Different?**. Cornell University Library arXiv. N/A: N/A.
Published
Refereed?: Yes
4. 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. 26(2): 1–37.
Published
Refereed?: Yes
5. Zéphyrin Soh, Foutse Khomh, Yann-Gaël Guéhéneuc, Giuliano Antoniol. (2017). **Noise in Mylyn Interaction Traces and Its Impact on Developers and Recommendation Systems**. Springer Journal of Empirical Software Engineering. N/A: N/A.
Accepted
Refereed?: Yes
6. 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. 131: 311–322.
Published
Refereed?: Yes
7. Le An, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2017). **An Empirical Study of Crash-inducing Commits in Mozilla Firefox**. Springer Software Quality Journal. N/A: 1–32.
Accepted
Refereed?: Yes
8. 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.
Published
Refereed?: Yes
9. 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.
Published
Refereed?: Yes

10. 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.
Published
Refereed?: No
11. 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.
Published
Refereed?: Yes
12. Jane Huffman Hayes, Alexander Dekhtyar, Jody Larsen, and Yann-Gaël Guéhéneuc. (2016). **Effective Use of Analysts' Effort in Automated Tracing**. Springer Requirements Engineering. N/A: 1–25.
Accepted
Refereed?: Yes
13. 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.
Published
Refereed?: Yes
14. 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.
Published
Refereed?: Yes
15. 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.
Published
Refereed?: No
16. 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.
Published
Refereed?: Yes
17. 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.
Published
Refereed?: Yes
18. 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.
Published
Refereed?: Yes

19. 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.
Published
Refereed?: Yes
20. 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.
Published
Refereed?: Yes
21. 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.
Published
Refereed?: Yes
22. 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.
Published
Refereed?: Yes
23. 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.
Published
Refereed?: Yes
24. 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.
Published
Refereed?: Yes
25. 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.
Published
Refereed?: Yes
26. 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.
Published
Refereed?: Yes
27. 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.
Published
Refereed?: Yes
28. 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.
Published
Refereed?: Yes

29. 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.
Published
Refereed?: Yes
30. 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.
Published
Refereed?: Yes
31. 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.
Published
Refereed?: Yes
32. 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.
Published
Refereed?: Yes
33. 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.
Published
Refereed?: Yes
34. 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.
Published
Refereed?: Yes
35. 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.
Published
Refereed?: Yes
36. 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.
Published
Refereed?: Yes
37. 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.
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38. 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.
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Journal Issues

1. Yann-Gaël Guéhéneuc and Tom Mens. (2015). Guest Editor's Introduction: Software Maintenance and Evolution Research. Empirical Software Engineering.
Accepted
Refereed?: No
Editors: Yann-Gaël Guéhéneuc and Tom Mens
2. Yann-Gaël Guéhéneuc and Gi-hwon Kwon. (2014). Guest Editor's Introduction: APSEC'14. Information and Software Technology.
Published
Refereed?: No
Editors: Yann-Gaël Guéhéneuc and Gi-hwon Kwon

Book Chapters

1. 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.
Published, Hermes Science
Refereed?: Yes
2. 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.
Published, Springer
Refereed?: Yes

Conference Publications

1. 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**. 14th ACM International Conference on Mining Software Repositories, Raleigh, United States (312–322)
Paper
Published
Refereed?: Yes, Invited?: No
2. 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**. 3rd UCL Centre for Behaviour Change Digital Health Conference, London, United Kingdom
Poster
Published
Refereed?: Yes, Invited?: No

3. Aiko Yamashita, S. Amirhossein Abtahizadeh, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2017). **Software Evolution and Quality Data from Controlled, Multiple, Industrial Case Studies**. 14th ACM International Conference on Mining Software Repositories, Raleigh, United States (507–510)
Paper
Published
Refereed?: Yes, Invited?: No
4. Rubén Saborido, Foutse Khomh, Giuliano Antoniol, and Yann-Gaël Guéhéneuc. (2017). **Comprehension of Ads-supported and Paid Android Applications: Are They Different?**. 25th IEEE International Conference on Program Comprehension, Raleigh, United States (143–153)
Paper
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Refereed?: Yes, Invited?: No
5. Abdelilah Sakti, Gilles Pesant, and Yann-Gaël Guéhéneuc. (2017). **JTExpert at the Fifth Unit Testing Tool Competition**. 10th ACM/IEEE International Workshop on Search-Based Software Testing, Buenos Aires, Argentina (43–46)
Paper
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Refereed?: Yes, Invited?: No
6. Fehmi Jaafar, Angela Lozano, Yann-Gaël Guéhéneuc, and Kim Mens. (2017). **On the Analysis of Co-Occurrence of Anti-Patterns and Clones**. 3rd IEEE International Conference on Software Quality, Reliability, and Security, Prague, Czech Republic (274–284)
Paper
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Refereed?: Yes, Invited?: No
7. Fabio Petrillo, Hyan Mandian, Aiko Yamashita, Foutse Khomh, and Yann-Gaël Guéhéneuc. (2017). **How Do Developers Toggle Breakpoints? Observational Studies**. 3rd IEEE International Conference on Software Quality, Reliability, and Security, Prague, Czech Republic (285–295)
Paper
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8. Anas Shatnawi, Hafedh Mili, Ghizlane El-Boussaidi, Anis Boubaker, Yann-Gaël Guéhéneuc, Naouel Moha, Jean Privat, and Manel Abdellatif. (2017). **Analyzing Program Dependencies in Java EE Applications**. 14th ACM International Conference on Mining Software Repositories, Raleigh, United States (64–74)
Paper
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9. Fábio Petrillo, Philippe Merle, Naouel Moha, and Yann-Gaël Guéhéneuc. (2017). **Towards a REST Cloud Computing Lexicon**. 7th ScitePress International Conference on Cloud Computing and Services Science, Porto, Portugal (348–355)
Paper
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Refereed?: Yes, Invited?: No
10. 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
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Refereed?: Yes, Invited?: No

11. 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 (1–4)
Paper
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12. 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)
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Refereed?: Yes, Invited?: No
13. 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
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14. 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
Published
Refereed?: Yes, Invited?: No
15. 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
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Refereed?: Yes, Invited?: No
16. 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 (44–55)
Paper
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Refereed?: Yes, Invited?: No
17. 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 (37–40)
Paper
Published
Refereed?: Yes, Invited?: No
18. 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
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19. 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 (22–28)
Paper
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20. 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
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21. 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
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22. 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
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Refereed?: Yes, Invited?: No
23. 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
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24. 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
25. 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
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26. 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
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27. 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 (1061–1080)
Paper
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Refereed?: Yes, Invited?: No
28. 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
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Refereed?: Yes, Invited?: No
29. 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
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Refereed?: Yes, Invited?: No
30. 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
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Refereed?: Yes, Invited?: No
31. 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
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Refereed?: Yes, Invited?: No
32. 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
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Refereed?: Yes, Invited?: No
33. 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
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Refereed?: Yes, Invited?: No
34. 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
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35. 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
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Refereed?: Yes, Invited?: No
36. 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
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Refereed?: Yes, Invited?: No
37. 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 (246–255)
Paper
Accepted
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38. 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 (378–385)
Paper
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Refereed?: Yes, Invited?: No
39. 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
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40. 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
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41. 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)
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42. 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
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43. 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)
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44. 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)
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45. 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
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46. 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 (33–42)
Paper
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47. 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
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48. 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
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Refereed?: Yes, Invited?: No
49. 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
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50. 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
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51. Abdou Maïga, 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
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Refereed?: Yes, Invited?: No
52. 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
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Refereed?: Yes, Invited?: No
53. 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
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54. 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
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55. 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
Published
Refereed?: Yes, Invited?: No
56. 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
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Refereed?: Yes, Invited?: No

57. 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
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58. 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
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Refereed?: Yes, Invited?: No
59. 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
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Refereed?: Yes, Invited?: No
60. 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
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61. 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
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62. 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
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Refereed?: Yes, Invited?: No
63. 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
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Refereed?: Yes, Invited?: No
64. 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
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65. 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)
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