

Dr. Jean-Rémy Falleri – Curriculum Vitæ

January 29, 2024

1 Personal information

1.1 Personal data

Name: Jean-Rémy Falleri
Nationality: French
Birth date: 09/10/1982
Address: LaBRI; 351, cours de la Libération; F-33405 Talence Cedex, France
E-mail: falleri@labri.fr
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Research field Software Engineering: software maintenance and evolution

1.2 Professional experience

since 09/2022 **Bordeaux INP, Bordeaux - France**
Full professor, computer-science departement (Enseirb-Matmeca)
Member of the Systems and Data research department (LaBRI)
Junior member of the *Institut Universitaire de France* (2020 - 2025)
Elected member of the *Conseil National des Universités*, Computer Science section (2015-2019)
Head of the Systems and Data research department (since 2021)
Head of the second year (since 2022)

09/2010 - 09/2022 **Bordeaux INP, Bordeaux - France**
Associate professor, telecommunications departement (Enseirb-Matmeca)
Member of the Systems and Data research department (LaBRI)
Head of the software engineering research group (2015 - 2021)
Head of the first year (2017 - 2020)
Elected member of the *Conseil National des Universités*, Computer Science section (2015-2019)

11/2009 - 08/2010 **Inria, Lille - France**
Post-doc researcher in the RMOD team of Stéphane Ducasse

09/2006 - 08/2009 **CNRS, Montpellier - France**
Research engineer and doctoral student
in the MaREL and TAL teams.
Involved in an industrial research project between
the LIRMM, the CNRS and France Télécom.

09/2006 - 08/2009 **Université Montpellier 2, Montpellier - France**
Lecturer

09/2006 - 08/2009 **Polytech'Montpellier, Montpellier - France**
Lecturer

09/2005 - 08/2006 **Université Montpellier 1, Montpellier - France**
Lecturer

1.3 Education

2015	Habilitation , <i>Université de Bordeaux</i> <i>Source Code Differencing for Software Evolution Research</i> Jury: Roberto Di Cosmo (Full Prof. at Univ. Paris 7) Laurence Duchien (Full Prof. at Univ. Lille 1) Tom Mens (Full Prof. at Univ. de Mons) Jean-Marc Jézéquel (Full Prof. at Univ. Rennes 1) Xavier Blanc (Full Prof. at Université de Bordeaux)
2006 - 2009	PhD , <i>Université Montpellier 2</i> <i>Contributions to Model Driven Engineering: alignment and refactoring of class models</i> Jury: Stéphane Ducasse (Research director at Inria) Jean-Marc Jézéquel (Full Prof. at Université de Rennes) Michel Dao (Research Engineer at Orange Labs) Yves Lepage (Full Prof. at Université de Caen) Violaine Prince (Full Prof. at l'Université Montpellier 2) Supervisor: Marianne Huchard (Full Prof. at l'Université Montpellier 2) Co-supervisors: Mathieu Lafourcade (Associate Prof. at Université Montpellier 2) Clémentine Nebut (Associate Prof. at l'Université Montpellier 2)
2005 - 2006	Master degree , <i>Université Montpellier 2</i> Major: computer science With honors
2001 - 2005	French engineer degree , <i>IMT Mines Alès</i> Major: computer science

1.4 Career summary

After obtaining my Ph.D. in computer science from the University of Montpellier, I did a one-year post-doc at INRIA Lille Nord Europe under Stéphane Ducasse's supervision. Finally, I was recruited as an associate professor at Bordeaux-INP in the telecommunication department of the Enseirb-Matmeca school. I was recruited simultaneously as Xavier Blanc, a full professor at the University of Bordeaux. Our mission was to create a brand new research group focused on the software engineering domain and supervise all teaching activities related to software engineering.

2010-2012 was a starting period for us, having many lectures to create and only one Ph.D. student under our supervision. We also had to look for industrial partners and write grant proposals to gather funding for our team. From 2012 to 2014, we had the luck to be joined by three other permanent researchers, and we started to build a good relationship with the companies in Bordeaux. Therefore our research team gained momentum. I was awarded the French scientific excellence award (PEDR) in 2014 and 2018. This award rewards professors having good scientific activity, leading to a salary bonus lasting 4 years. In 2015, I obtained my "habilitation" (a French diploma allowing researchers to supervise Ph.D. students officially), and I became head of the software engineering research group. From 2015 to 2019, I was elected to the french council of universities (CNU), in the computer science section, a council that delivers career advancement to associate and full professors, scientific awards, and the ability to apply for a professor position In 2020, I was nominated as a junior member at the prestigious Institut Universitaire de France for five years, during which I have a reduced teaching load to focus on research. In 2022 I was promoted to full professor. Along with this promotion, I changed from the telecommunication teaching department to the computer-science one. In 2021, I became the head of the Systems and Data department, one of the five research departments of the LaBRI.

1.5 Highlights

- Promotion to full professor (2022)
- Junior member of the Institut Universitaire de France (2020 - 2025)
- Best paper award of ICSE 2022 NIER track (2022)
- French scientific award (PEDR) 2018

- French scientific award (PEDR) 2014
- 2nd most cited article in the ASE ★ conference between 2014 and 2018
- 6th most cited article in the JSEP journal between 2014 and 2018
- 4th most cited article in the MoDELS conference ★ between 2008 and 2012

1.6 Administrative responsibilities

- Elected member of the french national council of universities, computer science section (2015-2019)
- Member of the LaBRI research board (since 2015)
- Member of the LaBRI research lead board (since 2021)
- Member of the LaBRI board (2013-2015)
- Elected member of Enseirb-Matmeca research board (2012-2021)

2 Research

2.1 Summary

During my Ph.D. (2006-2009), I worked on model-driven engineering. I created one of the first approaches to computing similarities between two UML class models targeting the same domain. The article describing the approach [C36] was the 4th most cited article in the best model-driven engineering conference, MoDELS, between 2008 and 2012.

During my post-doc, I started to work on software evolution. I am one of the first researchers to create a mainstream approach that performs syntactic diffs of a software system's code. I have implemented this approach in the famous GumTree tool, and the article describing the approach was published at the flagship ASE conference. It is the 2nd most-cited paper of the conference between 2014 and 2018.

I successfully applied syntactic diffing in a wide range of software evolution scenarios (automatic extraction of expertise, gamification of software engineering activities, and analysis of changes in third-party libraries).

Since 2019, I have started a research activity on the topic of "Software Engineering Education", aiming at reflecting on the best ways to teach this difficult concept to students. Since then, I published several articles on this subject, most notably at the ICSE conference (in the SEET track) [C8].

2.2 Detailed description

A software system's life cycle is composed of several successive phases. First, the initial version is released. Then, the system goes through a phase of active evolution where it is changed in response to new user needs or hardware evolution. Finally, it goes through servicing (only critical changes are performed) and phaseout (the system is used but no longer maintained). It has been shown in various empirical studies that the active evolution phase is the most expensive one. It generally accounts for between 60% and 80% of the total cost. Therefore, this phase has been a hot topic in the software engineering research field, named software evolution.

One crucial aspect when working with a changing software system is understanding what has changed between versions. This issue is tackled daily by software developers by using the very famous *diff* tool or one of its variants. The results of diff are then used in a wide range of software evolution tasks, such as a code review or inspecting suspect code after a regression.

The diff tool and its variants are all based on the textual evolution of the source code. It models the code as a sequence of text lines, and it computes a solution to the problem of finding the shortest sequence of actions that transform the old code to the new code, the actions being inserting or deleting a given line. While being very versatile (since it is not aware of the syntax it works with all programming languages), this approach has several important drawbacks. Firstly, it can produce results not aligned with the code syntax which can be very hard to interpret. For instance, a sequence of lines can be inserted by starting in the middle of a function and ending in the middle of another one, which does not make sense at all for a developer. Lastly, the considered actions are crude, and many relevant actions are not even considered. For instance, many refactorings (that are very famous code transformations) involve moving code around or renaming identifiers. These modifications are displayed to the developers as a combination of line insertions and deletions that are harder to interpret.

In my previous work, I developed one of the first mainstream approaches going beyond textual diffing: *syntactic diffing*. This approach resolves the previously described issues as it produces results that respect the syntax boundaries and include most of the typical edit actions performed by the developers. The idea is to model the code as a labeled tree, very similar to an abstract syntax tree, and compute a sequence of actions. The computed actions include inserting or deleting a node and moving a whole subtree, or renaming a node. However, when combining such a rich code and action representation model, the problem of finding one shortest

sequence transforming the old code to the new code is NP-hard. Fortunately, developers do not care if the returned sequence of actions is the shortest one or not. They only want a sequence of actions that makes sense and allows her to understand the changes. To that extent, I created a heuristic that can compute short sequences and, more importantly, accurately represents the developer's intention behind the changes. All this work led to the publication of the reference article *Fine-grained and accurate source code differencing* in the ASE conference. It has been the 2nd most cited article in this conference between 2014 and 2018. Additionally, I released the GumTree tool that implements my approach, and it has become a famous tool in the software evolution community. It is currently used in several research teams around the world.

2.3 Publications

In my list of publications, I indicate with a ★ all venues that: 1) are ranked A or A* in the [Australian Ranking of ICT Conferences](#) ranking or 2) belong to the top 20 software systems venues as ranked by [Google Scholar](#). **This ranking is indicated at the date of acceptance of the article.** Some of my publications have received distinguished paper awards or have been selected for being extended in a journal version. This is indicated by the presence of ❤️. The publications related to computer science education are indicated by the presence of a 🎓. Finally, the publications for which the text is available online are indicated by a clickable 📄.

<i>H-index:</i>	22
<i>I10 index:</i>	38
<i>Book chapters:</i>	1
<i>International journals:</i>	17
<i>International conferences:</i>	39
<i>Total citations:</i>	2205
<i>Co-authors:</i>	92

Book chapters




- [L1] Xavier Dolques, **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut, Mohammed Amine Rouane-Hacène, Petko Valtchev
Refactoring de modèles
Evolution et Maintenance des Systèmes Logiciels, Chapitre 7, Hermes-Science, Avril 2014.

International journals

- [J1] Benjamin Danglot, **Jean-Rémy Falleri**, Romain Rouvoy:
Can We Spot Energy Regressions using Developers Tests? 📄
Accepted for publication in Empirical Software Engineering ★.
- [J2] Théo Zimmermann, **Jean-Rémy Falleri**
A grounded theory of community package maintenance organizations 📄
Empirical Software Engineering ★, volume 28, 2023.
- [J3] Matias Martinez, **Jean-Rémy Falleri**, Martin Monperrus
Hyperparameter Optimization for AST Differencing 📄
IEEE Transactions on Software Engineering ★, volume 49, number 10, pages 4814-4828, 2023.
- [J4] Simon Larsen, **Jean-Rémy Falleri**, Benoit Baudry, Martin Monperrus
Spork: Structured Merge for Java with Formatting Preservation
IEEE Transactions on Software Engineering ★, volume 49, number 1, pages 64-83, 2023.
- [J5] Raul Medeiros and Jabier Martinez and Oscar Díaz and **Jean-Rémy Falleri**
Visualizations for the evolution of Variant-Rich Systems: A systematic mapping study 📄
Information and Software Technology ★, volume 154, 2023.
- [J6] Julien Leveau, Xavier Blanc, Laurent Réveillère, **Jean-Rémy Falleri**, Romain Rouvoy
Fostering the Diversity of Exploratory Testing in Web Applications 📄
Software Testing, Verification and Reliability, volume 32, 2022.
- [J7] Rafal Wlodarski, Aneta Poniszewska-Maranda, **Jean-Rémy Falleri**
Impact of software development processes on the outcomes of student computing projects: a tale of two universities 🎓 📄
Information and Software Technology, ★, volume 164, 2022.
- [J8] Lina Ochoa, Thomas Degueule, **Jean-Rémy Falleri**, Jurgen Vinju
Breaking Bad? Semantic Versioning and Impact of Breaking Changes in Maven Central 📄
Empirical Software Engineering ★, volume 27, 2022.


- [J9] Matthieu Foucault, Xavier Blanc, **Jean-Rémy Falleri**, Margaret-Anne Storey
Fostering Good Coding Practices through Individual Feedback and Gamification: an Industrial Case Study
Empirical Software Engineering ★, volume 24, number 6, pages 3731-3754, 2019
- [J10] Nour Aboud, Gabriela Arévalo, Olivier Bendavid, **Jean-Rémy Falleri**, Nicolas Haderer, Marianne Huchard, Chouki Tiberma-
cine, Christelle Urtado, Sylvain Vauttier
Building Hierarchical Component Directories 
Journal of Object Technologies, volume 18, number 1, pages 1-37, 2019
- [J11] Alan Charpentier, **Jean-Rémy Falleri**, Floréal Morandat, Elyas Ben Hadj Yahia, Laurent Réveillère
Raters' Reliability in Clone Benchmarks Construction 
Empirical Software Engineering ★, volume 22, pages 235-258, 2017.
- [J12] Matthieu Foucault, Cédric Teyton, David Lo, Xavier Blanc, **Jean-Rémy Falleri**
On the Usefulness of Ownership Metrics in Open-Source Software Projects 
Information and Software Technology ★, volume 64, pages 102-112, 2015.
- [J13] Cédric Teyton, Marc Palyart, **Jean-Rémy Falleri**, Xavier Blanc
A Study of Library Migration in Java 
Journal of Software Evolution and Process, volume 26, pages 1030–1052, 2014.
6ème article le plus cité du journal JSEP entre 2014 et 2018.
- [J14] Stéphane Ducasse, Hani Habdeen, Damien Pollet, Ilham Allaoui, **Jean-Rémy Falleri**
The Package Blueprint: visually analyzing and quantifying packages dependencies 
Science of Computer Programming ★, volume 89, pages 298-319, 2014.
- [J15] **Jean-Rémy Falleri**, Xavier Blanc, Reda Bendraou, Marcos Aurélio Almeida da Silva, Cédric Teyton
Incremental inconsistencies detection with low memory overhead 
Software Practice and Experience ★, volume 44, number 5, pages 621-641, 2014
- [J16] Jannik Laval, **Jean-Rémy Falleri**, Philippe Vismara, Stéphane Ducasse
Efficient Retrieval and Ranking of Undesired Package Cycles in Large Software Systems 
Journal of Object Technologies, volume 11, number 1, pages 1-24, 2012.
- [J17] Jannik Laval, Simon Denier, Stéphane Ducasse, **Jean-Rémy Falleri**
Supporting Simultaneous Versions For Software Evolution Assessment 
Science of Computer Programming ★, volume 76, pages 1177-1193, 2011.

International conferences


- [C1] **Jean-Rémy Falleri**, Matias Martinez
Fine-grained, accurate and scalable source differencing
Accepted for publication at ICSE 2024 ★.
- [C2] Corentin Latappy, Thomas Degueule, **Jean-Rémy Falleri**, Romain Robbes, Xavier Blanc, Cédric Teyton
What the Fix? A Study of ASAT Rules Documentation
Accepted for publication at ICPC 2024 ★.
- [C3] Gustave Monce, Thomas Coutouroy, Yasmine Hamdaoui, Thomas Degueule, **Jean-Rémy Falleri**
Lightweight Syntactic API Usage Analysis with UCov
Accepted for publication at ICPC 2024 ★.
- [C4] Ana de Almeida Borges, Annalí Casanueva Artís, **Jean-Rémy Falleri**, Emilio Jesús Gallego Arias, Érik Martin-Dorel, Karl
Palmskog, Alexander Serebrenik, Théo Zimmermann
Lessons for Interactive Theorem Proving Researchers from a Survey of Coq Users 
Proceedings of ITP 2023 ★, pages 1-18, 2023.
- [C5] Christophe Casseau, **Jean-Rémy Falleri**, Thomas Degueule, Xavier Blanc
MOON: Assisting Students in Completing Educational Notebook Scenarios  
Proceedings of VL/HCC 2023, pages 157-167, 2023.

- [C6] Corentin Latappy, Quentin Perez, Thomas Degueule, **Jean-Rémy Falleri**, Christelle Urtado, Sylvain Vauttier, Xavier Blanc, Cédric Teyton
MLinter: Learning Coding Practices from Examples-Dream or Reality? 
Proceedings of SANER 2023 (negative result track), ★, 2023.
- [C7] Lina Ochoa, Thomas Degueule, **Jean-Rémy Falleri**
BreakBot: Analyzing the Impact of Breaking Changes to Assist Library Evolution  
Proceedings of the 44th ICSE conference (NIER track) ★, pages 26-30, 2022.
- [C8] Rafal Wlodarski, **Jean-Rémy Falleri**, Corinne Parvéry
Assessment of a hybrid software development process for student projects: a controlled experiment  
Proceedings of the 43rd ICSE conference (SEET track) ★, pages 289-299, 2021.
- [C9] Julien Leveau, Xavier Blanc, Laurent Réveillère, **Jean-Rémy Falleri**, Romain Rouvoy
Fostering the Diversity of Exploratory Testing in Web Applications  
Proceedings of ICST 2020 ★, pages 64-174, 2020.
- [C10] Mohamed A. Oumaziz, **Jean-Rémy Falleri**, Xavier Blanc, Tegawendé F. Bissyandé, Jacques Klein
Handling duplicates in Dockerfiles families: Learning from experts 
Proceedings of ICSME 2019 ★, pages 524-535.
- [C11] Elyas Ben Hadj Yahia, **Jean-Rémy Falleri**, Laurent Réveillère:
Polly: A Language-Based Approach for Custom Change Detection of Web Service Data 
Proceedings of ICSOC 2017 ★, pages 430-444.
- [C12] Mohamed A. Oumaziz, Alan Charpentier, **Jean-Rémy Falleri**, Xavier Blanc
Documentation Reuse: Hot or Not? An Empirical Study 
Proceedings of ICSR 2017 ★, pages 12-27.
- [C13] Hanyang Cao, Yuxian Peng, Jing Jiang, **Jean-Rémy Falleri**, Xavier Blanc
Automatic identification of client-side JavaScript libraries in web applications 
Proceedings of SAC 2017, pages 670-677.
- [C14] Eric Grivel, Susan Medina, Francine Krief, **Jean-Rémy Falleri**, Guillaume Ferré, Laurent Réveillère, Daniel Négru
Telecom showcase: An exhibition of old technology useful for students and teachers 
Proceedings of the 25th EUSIPCO conference, 2017.
- [C15] Alan Charpentier, **Jean-Rémy Falleri**, Laurent Réveillère
Automated Extraction of Mixins in Cascading Style Sheets 
Proceedings of ICSME 2016 ★, pages 56-66.
- [C16] Hanyang Cao, **Jean-Rémy Falleri**, Xavier Blanc, Li Zhang
JSON Patch for Turning a Pull REST API into a Push 
Proceedings of ICSOC 2016 ★, pages 435-449.
- [C17] William Braik, Floréal Morandat, **Jean-Rémy Falleri**, Xavier Blanc
Real time streaming pattern detection for eCommerce
Proceedings of SAC 2016, pages 916-922.
- [C18] Matthieu Foucault, Marc Palyart, Xavier Blanc, Gail Murphy, **Jean-Rémy Falleri**
Developer Turnover in Open-Source Software 
Proceedings of FSE 2015 ★, pages 829-841.
- [C19] Alan Charpentier, **Jean-Rémy Falleri**, David Lo, Laurent Réveillère
An Empirical Assessment of Bellon's Clone Benchmark 
Proceeding of EASE 2015 ★.
- [C20] Nicolas Palix, **Jean-Rémy Falleri**, Julia Lawall
Improving Pattern Tracking with a Language-Aware Tree Differencing Algorithm 
Proceedings of SANER 2015, pages 43-52.
- [C21] Tosin Daniel Oyetyoyan, Jens Dietrich, **Jean-Rémy Falleri**, Kamil Jezek
Circular dependencies and change-proneness: an empirical study 
Proceedings of SANER 2015, pages 241-250.

- [C22] **Jean-Rémy Falleri**, Eric Grivel, Laurent Réveillère
What can industrial partnerships bring in to small-group projects to teach signal and image processing? 🎓
Proceedings of the 23rd EUSIPCO conference, 2015.
- [C23] **Jean-Rémy Falleri**, Floréal Morandat, Xavier Blanc, Matias Martinez, Martin Monperrus
Fine-grained and accurate source code differencing 📄
Proceedings of ASE 2014 ★, pages 313-324.
2ème article le plus cité de la conférence ASE entre 2014 et 2018.
- [C24] Cédric Teyton, Marc Palyart, **Jean-Rémy Falleri**, Floréal Morandat, Xavier Blanc
Automatic Extraction of Developer Expertise 📄
Proceedings of EASE 2014 ★.
- [C25] Matthieu Foucault, **Jean-Rémy Falleri**, Xavier Blanc
Code Ownership in Open-Source Software ❤️ 📄
Proceedings of EASE 2014 ★.
- [C26] Matthieu Foucault, Marc Palyart, **Jean-Rémy Falleri**, Xavier Blanc
Computing Contextual Metric Thresholds 📄
Proceedings of SAC 2014, pages 1120-1125.
- [C27] Cédric Teyton, **Jean-Rémy Falleri**, Floréal Morandat, Xavier Blanc
Find your library experts
Proceedings of WCRE 2013, pages 202-211.
- [C28] Cédric Teyton, **Jean-Rémy Falleri**, Xavier Blanc
Automatic discovery of function mappings between similar libraries
Proceedings of WCRE 2013, pages 192-201.
- [C29] Cédric Teyton, **Jean-Rémy Falleri**, Xavier Blanc
Mining Library Migration Graphs ❤️ 📄
Proceedings of WCRE 2012, pages 289-298.
- [C30] **Jean-Rémy Falleri**, Simon Denier, Jannik Laval, Philippe Vismara, Stéphane Ducasse
Efficient Retrieval and Ranking of Undesired Package Cycles in Large Software Systems ❤️ 📄
Proceedings of TOOLS 2011, pages 260-265.
- [C31] Xavier Dolques, Aymen Dogui, **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut, François Pfister
Easing Model Transformation Learning with Automatically Aligned Examples 📄
Proceedings of ECMFA 2011, pages 189-204.
- [C32] Zeina Azmeh, **Jean-Rémy Falleri**, Marianne Huchard, Chouki Tibermacine
Automatic Web Service Tagging Using Machine Learning and WordNet Synsets 📄
WEBIST Selected Papers, Lecture Notes in Business Information Processing, 2010, Volume 75, pages 46-59.
- [C33] **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut, Mathieu Lafourcade, Violaine Prince, Michel Dao
Automatic Extraction of a WordNet-like Identifier Network from Software 📄
Proceedings of ICPC 2010, pages 4-13.
- [C34] **Jean-Rémy Falleri**, Zeina Azmeh, Marianne Huchard, Chouki Tibermacine
Automatic Tag Identification In Web Service Descriptions ❤️ 📄
Proceedings of WEBIST 2010, pages 40-47.
- [C35] Nour Aboud, Gabriela Arevalo, **Jean-Rémy Falleri**, Marianne Huchard, Chouki Tibermacine, Christelle Urtado, Sylvain Vautier
Automated Architectural Component Classification Using Concept Lattices 📄
Proceedings of WICSA 2009 ★, pages 21-30.
- [C36] **Jean-Rémy Falleri**, Marianne Huchard, Mathieu Lafourcade, Clémentine Nebut
Metamodel Matching for Automatic Model Transformation Generation 📄
Proceedings of MODELS 2008 ★, pages 326-340.
4ème article le plus cité de la conférence MoDELS entre 2008 et 2012.

- [C37] Xavier Dolques, **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut
A model-driven engineering based RCA process for bi-level models elements / meta-elements. Application to description logics
Proceedings of CLA 2008.
- [C38] **Jean-Rémy Falleri**, Gabriela Arévalo, Marianne Huchard, Clémentine Nebut
Use of Model Driven Engineering in Building Generic FCA/RCA Tools
Proceedings of CLA 2007.
- [C39] Gabriela Arévalo, **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut
Building Abstractions in Class Models: Model Transformations coupled with Formal Concept Analysis 
Proceedings of MODELS 2006 ★, 2006, pages 513-527.

International conferences, short articles

- [O1] Christophe Casseau, **Jean-Rémy Falleri**, Xavier Blanc, Thomas Degueule
Immediate Feedback for Students to Solve Notebook Reproducibility Problems in the Classroom
Proceedings of VL/HCC 2021 
- [O2] Hanyang Cao, **Jean-Rémy Falleri**, Xavier Blanc
Automated Generation of REST API Specification from Plain HTML Documentation
Proceedings of ICSOC 2017 ★, pages 453-461
- [O3] Mohamed A. Oumaziz, Abdelkarim Belkhir, Tristan Vacher, Eric Beaudry, Xavier Blanc, **Jean-Rémy Falleri**, Naouel Moha
Empirical Study on REST APIs Usage in Android Mobile Applications
Proceedings of ICSOC 2017 ★, pages 614-622
- [O4] **Jean-Rémy Falleri**, Gabriela Arévalo, Marianne Huchard, Clémentine Nebut
A generic approach for class model normalization
Proceedings of ASE 2008 ★, pages 431-434.

International workshops

- [O5] Tegawendé F Bissyandé, Laurent Réveillère, **Jean-Rémy Falleri**, Yérom-David Bromberg
Typhoon: a middleware for epidemic propagation of software updates
Proceedings of the Third International Workshop on Middleware for Pervasive Mobile and Embedded Computing, 2012 (Middleware 2012)
- [O6] **Jean-Rémy Falleri**, Violaine Prince, Mathieu Lafourcade, Michel Dao, Marianne Huchard, Clémentine Nebut
Using Natural Language to Improve the Generation of Model Transformation in Software Design
Proceedings of the Computational Linguistics Applications Workshop, 2009 (IMCSIT 2009).
- [O7] **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut
Empirical comparison of two class model normalization techniques Obstacles and questions
Proceedings of the ESMDE Workshop, 2008 (MODELS 2008).
- [O8] **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut
Towards a traceability framework for model transformations in Kermeta
Proceedings of the ECMDA Traceability Workshop, 2006 (ECMDA-FA 2006).

National conferences, long articles

- [O9] Bastien Amar, **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut, Hervé Leblanc
Un framework de traçabilité pour des transformations à caractère impératif
Proceedings of the LMO Conference, 2008.
- [O10] Xavier Dolques, **Jean-Rémy Falleri**, Marianne Huchard, Clémentine Nebut
Adaptation d'un processus de construction d'abstractions basé IDM à des modèles bi-niveaux éléments / méta-éléments. Application aux logiques de description
Proceedings of the LMO Conference, 2008.

Thesis

[O11] Jean-Rémy Falleri

Source Code Differencing for Software Evolution Research

Habilitation à Diriger des Recherches, Université de Bordeaux, soutenue le 9 décembre 2015.

[O12] Jean-Rémy Falleri

Contributions à l'Ingénierie Dirigée par les Modèles: reconstruction et alignement de modèles de classes

Thèse de doctorat, Université Montpellier 2, soutenue le 28 octobre 2009.

[O13] Jean-Rémy Falleri

Normalisation de modèles de classes

Thèse de Master 2, Université Montpellier 2, 2006.

Other publications

[O14] Xavier Blanc, Jean-Rémy Falleri

Internet Software Evolution with VPraxis

ERCIM News, 2012, volume 88.

2.4 Student supervision

2.4.1 PhD students

Nicolas Hubner

- Date: since 2023 (ongoing)
- Amount of supervision: 50% (with Raluca Uricaru)
- Subject: *Build logs differencing*

Gustave Monce

- Date: since 2022 (ongoing)
- Amount of supervision: 50% (with Thomas Degueule)
- Subject: *Behavioral breaking changes*

Corentin Lattapy

- Date: since 2021 (ongoing)
- Amount of supervision: 50% (with Thomas Degueule)
- Subject: *From code-review to the linter*
- Results: 1 article

Christophe Casseau

- Date: since 2019 (ongoing)
- Amount of supervision: 50% (with Xavier Blanc)
- Subject: *Good coding practices for Jupyter Notebooks*
- Results: 2 article

Rafal Wlodarski

- Date: since 2018 (defended the 12/04/2022)
- Amount of supervision: 20% (with Aneta Poniszewska-Maranda)
- Subject: *Comparing software processes in academic programming projects*
- Results: 3 articles

Mohamed Ameziane Oumaziz

- Date: 2016 - 2020 (defended the 27/01/2020)
- Amount of supervision: 80% (avec Xavier Blanc)
- Jury: Mireille Blay, Tom Mens, Jean-Philippe Domenger, Anne Etien, Tewfik Ziadi
- Subject: *Cloning beyond source code: a study of the practices in API documentation and infrastructure as code*
- Results: 3 articles
- Next situation: developer

Alan Charpentier

- Date: 2013 - 2016 (defended the 17/10/2016)
- Amount of supervision: 50% (with Laurent Réveillère)
- Subject: *Contributions to the use of clone detection tools for software maintenance tasks*
- Jury: Julia Lawall, Tom Mens, Guillaume Blin, Martin Monperrus
- Results: 4 articles
- Next situation: developer

Matthieu Foucault

- Date: 2012 - 2015 (defended the 30/11/2015)
- Amount of supervision: 50% (with Xavier Blanc)
- Subject: *OSS developers organisation and software quality*
- Jury: Stéphane Ducasse, Marianne Huchard, Guy Mélançon, Benoît Baudry
- Results: 4 article
- Next situation: post-doc researcher at the University of Victoria (with Margaret-Anne Storey)

Cédric Teyton

- Date: 2011 - 2014 (defended the 26/09/2014)
- Amount of supervision: 50% (avec Xavier Blanc)
- Subject: *Third-party libraries management in a software maintenance context*
- Jury: Roberto Di Cosmo, Laurence Duchien, Tom Mens, François Pellegrini
- Results: 7 articles
- Next situation: the creation of a start-up on software quality

2.4.2 Post-doc researchers

Marc Palyart

- Date: 2012 - 2013
- Amount of supervision : 50% (avec Xavier Blanc)
- Results: 4 articles
- Next situation: post-doc researcher at the University of British Columbia (with Gail Murphy)

Amine Raji

- Date: 2011 - 2012
- Amount of supervision : 50% (avec Xavier Blanc)
- Next situation: civil service in Algeria

Jannik Laval

- Date: 2011 - 2012
- Amount of supervision : 50% (avec Xavier Blanc)
- Results : 3 articles
- Next situation: associate professor at Université Lyon 2

2.4.3 Master students

- Thomas Couturoux (2023)
- Nicolas Hubner (2023)
- Gustave Monce (2022)
- Zahra Carn (2021)
- Mohamed Ameziane Oumaziz (2016)
- Pierre Chanson (2014)
- David Fernandez (2014)
- Alan Charpentier (2013)
- Eloi Rivard (2012)
- Cédric Teyton (2011)
- Mohammed Hilia (2008)
- Jimmy Lauret (2008)
- Lala Hakik (2008)
- Bastien Amar (2007)
- Xavier Dolques (2007)

2.5 Research projects

2.5.1 Principal investigator

SemDiff

- Type: University of Bordeaux
- Amount: 85 200 €
- Date: 2016 - 2018
- Partners: LaBRI
- Role: principal investigator

EvoLog

- Type : Région Aquitaine
- Amount: 98 000 €
- Date: 2012 - 2015
- Partenaires : LaBRI
- Role: principal investigator

2.5.2 Workpackage or local leader

Labcom Parcoursup

- Type: Ministry
- Date: 2022 - 2023
- Partners: LaBRI, SCN Parcoursup, Laboratoire DCS
- Role: work package leader

Parcoursup's certification

- Type: Ministry
- Amount: 45 000 €
- Date: 2020 - 2021
- Partners: LaBRI and Ministry
- Role: work package leader

Wizard

- Type: Industrial
- Amount: 30 000 €
- Date: 2020 - 2022
- Partners: LaBRI, CATIE and IDAIA Group
- Role: leader for the LaBRI

2.5.3 Participant

EvoClones

- Type: University of Bordeaux
- Amount: 85 200 €
- Date: 2013 - 2016
- Partners: LaBRI
- Role: participant

Merlion

- Type: French embassy and Singapore
- Date: 2012 - 2013
- Partners: LaBRI, Inria and Singapore Management University
- Role: participant

Macchiato

- Type: Projet FUI R&D
- Amount: 196 000 €
- Date: 2010 - 2013
- Partners: Inria, LaBRI, Auchan and Webpulser
- Role: participant

FT-IDM

- Type: Industrial contract
- Date: 2006 - 2009
- Partners: LIRMM and Orange Labs
- Role: participant

2.6 Service

Animation

- PC chair of the French conference CIEL 2017
- Co-head of a national working group on empirical software engineering GDR-GPL (2014 - 2020)
- Head of the systems and data research department of the LaBRI: around 25 permanent researchers (since 2021)
- Head of the software engineering research group of the LaBRI: 6 permanent researchers and 6 Ph.D. students (since 2015-2021)
- Member of the organization committee of GDR-GPL 2015
- Member of the organization committee of EuroSys 2015 ★
- Member of the organization committee of Middleware 2014 ★

Conferences

- Program committee member of ASE ★: 2023, 2021, 2020, 2019, 2018 (session tools)
- Program committee member of ICSME ★: 2022, 2018, 2014, 2013
- Program committee member of MSR ★: 2021 (registered report track)
- Program committee member of SANER ★: 2015, 2015 (session ERA)
- Program committee member of ICPC ★: 2019 (negative results track)
- Program committee member of ICISOFT: 2018, 2017, 2016, 2015, 2014
- Program committee member of SCAM: 2015
- Program committee member of CIEL 2021

Journals

- Reviewer for the journal Empirical Software Engineering ★
- Reviewer for the journal Automated Software Engineering ★
- Reviewer for the journal IEEE Transaction of Software Engineering ★
- Reviewer for the journal Journal of Software Evolution and Process
- Reviewer for the journal Journal of Systems and Software ★
- Reviewer for the journal Science of Computer Programming ★
- Reviewer for the journal Information and Software Technology ★
- Reviewer for the journal SoSyM ★
- Reviewer for the journal Journal of Object Technology

Jurys and expertise

- Member of the national best GDR-GPL's Ph.D. committee: 2022
- Expert for the "Crédit Impôt Recherche", which reviews tax deductions given to companies in exchange for research and development activities (since 2019)
- Expert for the committee that gives funding to newly established professors in Quebec: 2018 and 2019
- Expert for the french ANRT agency that gives funding to Ph.D. jointly done by a laboratory and a private company
- Member of a recruiting committee for an associate professor position: Univ. Lille 1 (2012), IUT Bordeaux (2012), IUT Bordeaux (2021)
- Expert for the national research funding agency ANR (2012)

Ph.D. Jurys

Reviewer

- Reviewer of the Ph.D. of Fabien Coulon (Université de Rennes 2, supervised by Benoit Combemale and Olivier Barais), 2022
- Reviewer of the Ph.D. of Benoit Verhaeghe (Université de Lille, supervised by Anne Etien and Nicolas Anquetil), 2021
- Reviewer of the Ph.D. of Zeinab Abou Khalil (Université de Lille and Université de Mons, supervised by Laurence Duchien and Tom Mens), 2021
- Reviewer of the Ph.D. of Théo Zimmermann (Université Paris, supervised by Hugo Herbelin and Yann Régis-Gianas), 2019
- Reviewer of the Ph.D. of Vincenzo Musco (Université Lille 3, supervised by Philippe Preux and Martin Monperrus), 2016
- Reviewer of the Ph.D. of Geoffrey Hecht (Université Lille 1, supervised by Naouel Moha and Romain Rouvoy), 2016

Examiner

- Examiner of the Ph.D. of Lucas Serrano (Sorbonne Universités, supervised by Julia Lawall), 2020
- Examiner of the Ph.D. of Manuel Leduc (Université Rennes, supervised by Benoît Combemale and Olivier Barais), 2019

2.7 Tools

GumTree

- Role: creator and maintainer
- around 600 GitHub stars and 150 forks
- License: GNU Lesser General Public License v3.0
- Description: A syntactic diff tool.

Diggit

- Role: creator and maintainer
- License: GNU Lesser General Public License v3.0
- Description: an agile git repository mining framework.

Harmony

- Role: creator and maintainer
- License: Public Domain
- Description: an agile repository mining framework.

Galatea

- Role: creator and maintainer
- License: Apache License 2.0
- Description: a library to perform relational concept analysis in using the Eclipse ecosystem.

Popsycle

- Role: creator and maintainer
- License: GNU Lesser General Public License v3.0
- Description: a tool that scans and detects suspect cycles among the packages of a software system.

Gumm

- Role: creator and maintainer
- License: Public Domain
- Description: a tool that computes the similarities between the elements of two class models.

MOOSE

- Role: contributor
- License: BSD License
- Description: a reverse engineering framework.