

## ANTHONY CLEVE - OCTOBER 2022



### PERSONALIA

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**Office address:** Namur Digital Institute (NADI) - PReCISE research center  
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**Languages:** French: mother tongue, English: very good, Dutch: good

**Other data:** male; Belgian; in a relationship; 4+2 children

### EDUCATION

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**PhD in Computer Science**, University of Namur, 29 October 2009

**Master in Computer Science**, University of Namur, June 2004 (summa cum laude)

**Bachelor in Economics and Management**, University of Namur, June 2001 (cum laude)

### EMPLOYMENT

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<b>09/2022-today</b>	<b>Full Professor</b> Faculty of Computer Science, University of Namur, Belgium
<b>2021–2022</b>	<b>Visiting Professor</b> Faculty of Informatics, Università della Svizzera italiana, Switzerland
<b>09/2017–08/2022</b>	<b>Associate Professor (tenured)</b> Faculty of Computer Science, University of Namur, Belgium
<b>09/2013–08/2017</b>	<b>Assistant Professor (tenured)</b> Faculty of Computer Science, University of Namur, Belgium
<b>09/2011–08/2013</b>	<b>Assistant Professor (tenure-track)</b> Faculty of Computer Science, University of Namur, Belgium
<b>12/2010–09/2018</b>	<b>Visiting Lecturer</b> Département des Sciences de l'Information et de la Communication (SIC), Université Libre de Bruxelles (ULB), Belgium
<b>12/2010–08/2011</b>	<b>Senior researcher</b> Database Application Engineering Laboratory (LIBD), PReCISE Research Center – Faculty of Computer Science, University of Namur, Belgium
<b>12/2009–11/2010</b>	<b>ERCIM post-doctoral research fellow</b> ADAM team, INRIA Lille Nord-Europe, Laboratoire d'Informatique Fondamentale de Lille (LIFL), University of Lille 1, France
<b>09/2004–10/2009</b>	<b>Research assistant and PhD student</b> LIBD team, PReCISE Research Center – Faculty of Computer Science, University of Namur <ul style="list-style-type: none"><li>■ <b>Visiting researcher</b>, Software Analysis and Transformation group (SWAT), Centrum voor Wiskunde en Informatica (CWI), Amsterdam, The Netherlands, 2005-2006</li><li>■ <b>Visiting scientist</b>, s.a. ReVeR – spin-off company of UNamur, Belgium, 2004-2007</li></ul>

## I. RESEARCH

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### RESEARCH PROJECTS & GRANTS

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*Since my tenure (2013), I attracted over 3M€ of research funding, including 2.5M€ of external research funding as principal investigator, through the following projects and grants:*

- **Principal investigator & spokesperson** of **FNRS PDR** project T.0046.20 “INSTINCT”, *Improving Database Interactions in NoSQL Applications*, in collaboration with University of Lugano, Switzerland, 2020-2024. Funding: **173 K€** for UNamur (1 PhD student)
- **Principal investigator** of **Excellence Of Science (EOS)** project “SECO-ASSIST, *Automated Assistance for Developing Software in Ecosystems of the Future*, in collaboration with University of Mons (UMons), Vrije Universiteit Brussels (VUB), and University of Antwerp (UAntwerp), 2018-2022. Funding: **551 K€** for UNamur (1 post-doc, 1 PhD student).
- **Principal investigator** of **H2020 EU** project “TYPHON” - *Polyglot and Hybrid Persistence Architectures for Big Data Analytics*, in collaboration with University of York (UK), University of L’Aquila (Italy), CWI (Amsterdam, The Netherlands), Edge Hill University (UK), ATB (Germany), The Open Group (UK), Volkswagen (Germany), Alpha Bank (Greece), CLMS (Greece), and GMV (Spain), 2018-2020. Funding: **395 K€** for UNamur (1 post-doc).
- **Principal investigator** of **InBev-Baillet Latour** grant - *Towards a Contextual French-LSFB Online Dictionary*, in collaboration with LSFB-Lab (NaLLT) at UNamur, 2019-2021. Funding: **450 K€** for UNamur (1 PhD student).
- **Principal investigator** of **FEDER** research project “IDEES” - *L’Internet de Demain pour développer les Entreprises, l’Économie et la Société – Fondations technologiques*, in collaboration with 3 colleagues at UNamur, the CETIC, and several French-speaking Belgian Universities, 2017-2020. Funding: **745 K€** for UNamur (1 PhD student).
- **Principal investigator** of **FNRS PDR** project T.0022.13 “DISSE” - *Data-Intensive Software System Evolution*, in collaboration with University of Mons, 2013-2017. Funding: **275 K€** for UNamur (1 PhD student).

*I also obtained several internal project, fellowships and grants, co-funded by the University of Namur (circa 500K€):*

- **Principal investigator** of **ARC** project “RAINDROP”, *Cross-stack Adaptation for the Edgification of Microservices Applications*, in collaboration with UCLouvain, Belgium, 2022-2027. Funding: **195 K€** (1 PhD student)
- **UNamur-CERUNA PhD fellowship** of **Rabeb Abida**, *Semantic enrichment and exploitation of Open Data*, 2019-2023. Funding: **130K€** (1 PhD student)
- **UNamur post-doctoral fellowship** of **Csaba Nagy**, *Improving the maintainability of data-intensive systems with automatic refactoring*, 2017-2018. Funding: **33K€** (1 post-doc)
- **UNamur grant**, co-investigator : Laurence Meurant, **SILENT** (*Sign Language Bilingual Tools*) - *Towards a corpus-based online tool for French-LSFB bilingual needs*. 2016-2017. Funding **106K€** (1 PhD student)
- **FSR-COFUND post-doctoral fellowship** of **Marco Mori**, *Consistent Design and Evolution of Context-oriented Data Intensive Software Systems*, 2013-2014. Funding: **31K€** (1 post-doc)

## PUBLICATIONS

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11 journal papers, 47 conference papers, 5 book chapters, 14 workshop papers, 8 edited volumes, 3 editorials.

34 publications in international venues (journals/conferences) ranked **A\*/A** in CORE<sup>1</sup> ranking<sup>2</sup>

9 publications in international venues (journals/conferences) ranked **B** in CORE ranking<sup>3</sup>

Co-authors followed by \* are current or former students/researchers working under my supervision

### Journal Papers (11)

1. Maxime Gobert\*, Csaba Nagy, Henrique Rocha, Serge Demeyer and **Anthony Cleve**. Best Practices of Testing Database Manipulation Code. In *Information Systems*. Elsevier, 2023.
2. Maxime Gobert\*, Loup Meurice\* and **Anthony Cleve**. Modeling, Manipulating and Evolving Hybrid Polystores with HyDRa. In *Science of Computer Programming*, Elsevier, 2022.
3. Biruk Asmare Muse, Csaba Nagy, **Anthony Cleve**, Foutse Khomh, and Giuliano Antoniol. FIXME: Synchronize with database - an empirical study of data access self-admitted technical debt. *Empirical Software Engineering*, Springer, 2022.
4. Alberto Bacchelli, Andrea Mocci, **Anthony Cleve**, and Michele Lanza. Mining structured data in natural language artifacts with island parsing. *Science of Computer Programming*, 150:31–55, Elsevier, 2017.
5. **Anthony Cleve**, Maxime Gobert\*, Loup Meurice\*, Jerome Maes\*, and Jens Weber. Understanding database schema evolution: A case study. *Science of Computer Programming*, 97:113–121, Elsevier, 2015.
6. Gabriel Tamura, Ruby Casallas, **Anthony Cleve**, and Laurence Duchien. QoS contract preservation through dynamic reconfiguration: A formal semantics approach. *Science of Computer Programming*, 94:307–332, Elsevier, 2014.
7. Mathieu Acher, **Anthony Cleve**, Philippe Collet, Philippe Merle, Laurence Duchien, and Philippe Lahire. Extraction and evolution of architectural variability models in plugin-based systems. *Software & Systems Modeling*, 13:1367–1394, Springer, 2014.
8. **Anthony Cleve**, Jean-Roch Meurisse, and Jean-Luc Hainaut. Database semantics recovery through analysis of dynamic SQL statements. *Journal on Data Semantics*, 15:130–157, Springer, 2011.
9. Carlos Parra, Xavier Blanc, **Anthony Cleve**, and Laurence Duchien. Unifying design and runtime software adaptations using aspect models. *Science of Computer Programming*, 76(12):1247–1260, Elsevier, 2011.
10. **Anthony Cleve**, Tom Mens, and Jean-Luc Hainaut. Data-intensive system evolution. *IEEE Computer*, 43(8):110–112, IEEE, August 2010.
11. Gabriel Tamura and **Anthony Cleve**. A comparison of taxonomies for model transformation languages. *Paradigma*, 4(1), March 2010.

### Conference Papers (47)

1. Boris Cherry\*, Pol Benats\*, Maxime Gobert\*, Loup Meurice\*, Csaba Nagy, and **Anthony Cleve**. Static analysis of database accesses in MongoDB applications. In *Proceedings of the 29th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2022)*. IEEE Computer Society, 2022.
2. Maxime Gobert\*, Loup Meurice\*, and **Anthony Cleve**. HyDRA: A framework for modeling, manipulating and evolving hybrid polystores. In *Proceedings of the 29th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2022)*. IEEE Computer Society, 2022.
3. Pol Benats\*, Loup Meurice\*, and **Anthony Cleve**. Query-based Schema Evolution Recommendations for Hybrid Polystores. In *Proceedings of the 41st International Conference on Conceptual Modeling (ER 2022)*, Forum track, CEUR-WS Proceedings, vol. 3211, 2022.
4. Maxime Gobert\*, Csaba Nagy, Henrique Rocha, Serge Demeyer, and **Anthony Cleve**. Challenges and perils of testing database manipulation code. In Marcello La Rosa, Shazia W. Sadiq, and Ernest Teniente, editors,

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<sup>1</sup> <https://www.core.edu.au/conference-portal>

<sup>2</sup> **A\***: ASE (1), ICSE (2) - **A**: CAiSE (3), ECSA (2), ER (5), Empirical Software Engineering (1), ICPC (1), ICSM(E) (6), IJCNN (1), Information Systems (1), Journal on Systems and Software (1), MSR (1), SANER (4), Science of Computer Programming (5)

<sup>3</sup> **B**: WCRE (6), Software and Systems Modeling (1), VISSOFT (1), ICMT (1)

*Proceedings of the 33rd International Conference on Advanced Information Systems Engineering (CAiSE 2021)*, volume 12751 of Lecture Notes in Computer Science, pages 229–245. Springer, 2021. **Invited to a special issue in Information Systems Journal.**

5. Pol Benats\*, Maxime Gobert\*, Loup Meurice\*, Csaba Nagy, and **Anthony Cleve**. An empirical study of (multi-) database models in open-source projects. In Aditya K. Ghose, Jennifer Horkoff, Vítor E. Silva Souza, Jeffrey Parsons, and Joerg Evermann, editors, *Proceedings of the 40th International Conference on Conceptual Modeling (ER 2021)*, volume 13011 of Lecture Notes in Computer Science, pages 87–101. Springer, 2021.
6. Maxime Gobert\*, Loup Meurice\*, and **Anthony Cleve**. Conceptual modeling of hybrid polystores. In Aditya K. Ghose, Jennifer Horkoff, Vítor E. Silva Souza, Jeffrey Parsons, and Joerg Evermann, editors, *Proceedings of the 40th International Conference on Conceptual Modeling (ER 2021)*, volume 13011 of Lecture Notes in Computer Science, pages 113–122. Springer, 2021.
7. Jérôme Fink\*, Benoît Frenay, Laurence Meurant, and **Anthony Cleve**. LSFb-CONT and LSFb-ISOL: two new datasets for vision-based sign language recognition. In *Proceedings of the 2021 International Joint Conference on Neural Networks (IJCNN 2021)*, pages 1–8. IEEE, 2021.
8. Biruk Asmare Muse, Mohammad Masudur Rahman, Csaba Nagy, **Anthony Cleve**, Foutse Khomh, and Giuliano Antoniol. On the prevalence, impact, and evolution of SQL code smells in data-intensive systems. In Sunghun Kim, Georgios Gousios, Sarah Nadi, and Joseph Hejderup, editors, *Proceedings of the 17th International Conference on Mining Software Repositories (MSR 2020)*, pages 327–338. ACM, 2020.
9. Jérôme Fink\*, Maxime Gobert\*, and **Anthony Cleve**. Adapting queries to database schema changes in hybrid polystores. In *Proceedings of the 20th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM 2020)*, pages 127–131. IEEE, 2020. **Best Paper Award.**
10. Rabeb Abida\*, Emna Hachicha Belghith\*, and **Anthony Cleve**. An end-to-end framework for integrating and publishing linked open government data. In *Proceedings of the 29th IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE 2020)*, pages 257–262. IEEE, 2020.
11. Thibaud Masson\*, Romain Ravet\*, Francisco Javier Bermudez Ruiz, Souhaila Serbout, Diego Sevilla Ruiz, and **Anthony Cleve**. Defining referential integrity constraints in graph-oriented datastores. In Slimane Hammoudi, Luís Ferreira Pires, and Bran Selic, editors, *Proceedings of the 8th International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2020)*, pages 409–416. SCITEPRESS, 2020.
12. Jérôme Fink\*, **Anthony Cleve**, and Benoît Frenay. Deep learning applied to sign language. In Katrien Beuls, Bart Bogaerts, Gianluca Bontempi, Pierre Geurts, Nick Harley, Bertrand Lebuchot, Tom Lenaerts, Gilles Louppe, and Paul Van Eecke, editors, *Proceedings of the 31st Benelux Conference on Artificial Intelligence (BNAIC 2019) and the 28th Belgian Dutch Conference on Machine Learning (BENELEARN 2019)*, Brussels, Belgium, November 6-8, 2019. CEUR-WS.org, 2019.
13. Maxime Cauz\* and **Anthony Cleve**. Interacting with overlaid information in augmented reality systems for maintenance: A preliminary review. In Manuel Kolp, Jean Vanderdonck, Monique Snoeck, and Yves Wautelet, editors, *Proceedings of the 13th International Conference on Research Challenges in Information Science (RCIS 2019)*, pages 1–2. IEEE, 2019.
14. Csaba Nagy\* and **Anthony Cleve**. SQLInspect: a static analyzer to inspect database usage in java applications. In Michel Chaudron, Ivica Crnkovic, Marsha Chechik, and Mark Harman, editors, *Proceedings of the 40th International Conference on Software Engineering (ICSE 2018)*, pages 93–96. ACM, 2018.
15. Csaba Nagy\* and **Anthony Cleve**. A static code smell detector for SQL queries embedded in java code. In *Proceedings of the 17th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM 2017)*, pages 147–152, 2017.
16. Nesrine Noughi\*, Stefan Hanenberg, and **Anthony Cleve**. An empirical study on the usage of SQL execution traces for program comprehension. In *Proceedings of the 2017 IEEE International Conference on Software Quality, Reliability and Security (QRS 2017)*, pages 47–54, 2017.
17. Loup Meurice\* and **Anthony Cleve**. Supporting schema evolution in schema-less NoSQL data stores. In *Proceedings of the 24th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2017)*. IEEE Computer society, 2017.
18. Michael de Jong, Arie van Deursen, and **Anthony Cleve**. Zero-downtime SQL database schema evolution for continuous deployment. In *Proceedings of the 39th International Conference on Software Engineering (ICSE 2017)*, Software Engineering In Practice Track (SEIP), pages 143–152. IEEE, 2017.

19. Loup Meurice\*, Csaba Nagy\*, and **Anthony Cleve**. Static analysis of dynamic database usage in Java systems. In Selmin Nurcan, Pnina Soffer, Marko Bajec, and Johann Eder, editors, *Proceedings of the 28th International Conference on Advanced Information Systems Engineering (CAiSE 2016)*, volume 9694 of Lecture Notes in Computer Science, pages 491–506. Springer, 2016.
20. Loup Meurice\*, Csaba Nagy\*, and **Anthony Cleve**. Detecting and preventing program inconsistencies under database schema evolution. In *Proceedings of the 2016 IEEE International Conference on Software Quality, Reliability and Security (QRS 2016)*, pages 262–273. IEEE Computer Society, 2016. **Best Paper Award**.
21. Loup Meurice\* and **Anthony Cleve**. DAHLIA 2.0: A visual analyzer of database usage in dynamic and heterogeneous systems. In Bonita Sharif, Christopher Parnin, and Johan Fabry, editors, *Proceedings of the 2016 IEEE Working Conference on Software Visualization (VISSOFT 2016)*, demo track, pages 76–80. IEEE Computer Society, 2016.
22. Laurence Meurant, Maxime Gobert\*, and **Anthony Cleve**. Modelling a parallel corpus of french and french belgian sign language. In *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016)*. European Language Resources Association (ELRA), 2016.
23. Csaba Nagy\* and **Anthony Cleve**. Mining Stack Overflow for discovering error patterns in SQL queries. In *Proceedings of the 31st IEEE International Conference on Software Maintenance and Evolution (ICSME 2015)*, pages 516–520. IEEE Computer Society, 2015.
24. Csaba Nagy\*, Loup Meurice\*, and **Anthony Cleve**. Where was this SQL query executed? a static concept location approach. In Yann-Gaël Guéhéneuc, Bram Adams, and Alexander Serebrenik, editors, *Proceedings of the 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2015)*, NIER track, pages 580–584. IEEE, 2015.
25. Marco Mori\*, Nesrine Noughi\*, and **Anthony Cleve**. Extracting data manipulation processes from SQL execution traces. In Selmin Nurcan, Elias Pimenidis, Oscar Pastor, and Yannis Vassiliou, editors, *Information Systems Engineering in Complex Environments*, selected extended papers of CAiSE Forum 2014, volume 204 of Lecture Notes in Business Information Processing. Springer, 2015.
26. Loup Meurice\*, Javier Bermudez\*, Jens Weber, and **Anthony Cleve**. Establishing referential integrity in legacy information systems: Reality bites! In *Proceedings of the 30th IEEE International Conference on Software Maintenance (ICSM 2014)*, ERA track. IEEE Computer Society, 2014.
27. Loup Meurice\* and **Anthony Cleve**. DAHLIA - a visual analyzer of database schema evolution. In *Proceedings of the IEEE CSMR/WCRE 2014 Software Evolution Week*, pages 464–468. IEEE Computer Society, 2014.
28. Nesrine Noughi\*, Marco Mori\*, Loup Meurice\*, and **Anthony Cleve**. Understanding the database manipulation behavior of programs. In Chanchal K. Roy, Andrew Begel, and Leon Moonen, editors, *Proceedings of the 22nd International Conference on Program Comprehension (ICPC 2014)*, pages 64–67. ACM, 2014.
29. Marco Mori\*, Nesrine Noughi\*, and **Anthony Cleve**. Mining SQL execution traces for data manipulation behavior recovery. In Selmin Nurcan, Elias Pimenidis, Oscar Pastor, and Yannis Vassiliou, editors, *Proceedings of the 26th International Conference on Advanced Information Systems Engineering (CAiSE 2014)*, Forum track, CEUR-WS.org, pages 41–48, 2014.
30. Ebrahim Abbasi, Mathieu Acher, Patrick Heymans, and **Anthony Cleve**. Reverse engineering web configurators. In *Proceedings of the IEEE CSMR/WCRE 2014 Software Evolution Week*, pages 264–273. IEEE Computer Society, 2014.
31. Maxime Gobert\*, Jerome Maes\*, **Anthony Cleve**, and Jens Weber. Understanding schema evolution as a basis for database reengineering. In *Proceedings of the 29th IEEE International Conference on Software Maintenance (ICSM 2013)*. IEEE Computer Society, 2013.
32. Marco Mori\*, **Anthony Cleve**, and Paola Inverardi. A stability-aware approach to continuous self-adaptation of data-intensive systems. In *Proceedings of the 2nd International Conference on Context-Aware Systems and Applications (ICCASA 2013)*. Springer Verlag, 2013.
33. **Anthony Cleve** and Jean-Luc Hainaut. What do foreign keys actually mean? In *Proceedings of the 19th Working Conference on Reverse Engineering (WCRE 2012)*, pages 299–307. IEEE Computer Society, 2012.
34. James Terwilliger, **Anthony Cleve**, and Carlo Curino. How clean is your sandbox? : Towards a unified theoretical framework for incremental bidirectional transformations. In *Proceedings of the 5th International Conference on Model Transformation (ICMT 2012)*, volume 7307 of Lecture Notes in Computer Science, pages 1–23. Springer, 2012.

35. Alberto Bacchelli, **Anthony Cleve**, Michele Lanza, and Andrea Mocci. Extracting structured data from natural language documents with island parsing. In Perry Alexander, Corina S. Pasareanu, and John G. Hosking, editors, *Proceedings of the 26th IEEE/ACM International Conference on Automated Software Engineering (ASE 2011)*, pages 476–479, 2011.
36. Mathieu Acher, **Anthony Cleve**, Philippe Colet, Philippe Merle, Laurence Duchien, and Philippe Lahire. Reverse engineering architectural feature models. In Ivica Crnkovic, Volker Gruhn, and Matthias Book, editors, *Proceedings of the 5th European Conference on Software Architecture (ECSA 2011)*, volume 6903 of Lecture Notes in Computer Science, pages 220–235. Springer, 2011.
37. Ravi Ramdoyal and **Anthony Cleve**. From pattern-based user interfaces to conceptual schemas and back. In Manfred A. Jeusfeld, Lois M. L. Delcambre, and Tok Wang Ling, editors, *Proceedings of the 30th International Conference on Conceptual Modeling (ER 2011)*, volume 6998 of Lecture Notes in Computer Science, pages 247–260. Springer, 2011.
38. **Anthony Cleve**, Anne-France Brogneaux, and Jean-Luc Hainaut. A conceptual approach to database applications evolution. In Jeffrey Parsons, Motoshi Saeki, Peretz Shoval, Carson Woo, and Yair Wand, editors, *Proceedings of the 27th International Conference on Conceptual Modeling (ER 2010)*, volume 6412 of Lecture Notes in Computer Science, pages 132–145. Springer, 2010.
39. **Anthony Cleve**. Program analysis and transformation for data-intensive system evolution. In Michele Lanza and Andrian Marcus, editors, *Proceedings of the 26th IEEE International Conference on Software Maintenance (ICSM 2010)*. IEEE Computer Society, 2010.
40. Ravi Ramdoyal, **Anthony Cleve**, and Jean-Luc Hainaut. Reverse engineering user interfaces for interactive database conceptual analysis. In Barbara Pernici, editor, *Proceedings of the 22nd International Conference on Advanced Information Systems Engineering (CAiSE 2010)*, volume 6051 of Lecture Notes in Computer Science, pages 332–347. Springer, 2010.
41. Carlos Parra, **Anthony Cleve**, Xavier Blanc, and Laurence Duchien. Feature-based composition of software architectures. In Muhammad Ali Babar and Ian Gorton, editors, *Proceedings of the 4th European Conference on Software Architecture (ECSA 2010)*, volume 6285 of Lecture Notes in Computer Science, pages 230–245. Springer, 2010.
42. **Anthony Cleve** and Jean-Luc Hainaut. Dynamic analysis of SQL statements for data-intensive applications reverse engineering. In Andy Zaidman, Massimiliano Di Penta, and Ahmed Hassan, editors, *Proceedings of the 15th Working Conference on Reverse Engineering (WCRE 2008)*, pages 192–196. IEEE Computer Society, 2008.
43. Jean Henrard, Didier Roland, **Anthony Cleve**, and Jean-Luc Hainaut. Large-scale data reengineering: Return from experience. In Andy Zaidman, Massimiliano Di Penta, and Ahmed Hassan, editors, *Proceedings of the 15th Working Conference on Reverse Engineering (WCRE 2008)*, pages 305–308. IEEE Computer Society, 2008.
44. **Anthony Cleve**, Jean Henrard, Didier Roland, and Jean-Luc Hainaut. Wrapper-based system evolution - application to CODASYL to relational migration. In Kostas Kontogiannis, Christos Tjortjis and Andreas Winter, editors, *Proceedings of the 12th European Conference in Software Maintenance and Reengineering (CSMR 2008)*, pages 13–22. IEEE Computer Society, 2008.
45. Jean Henrard, Didier Roland, **Anthony Cleve**, and Jean-Luc Hainaut. An industrial experience report on legacy data-intensive system migration. In Gerardo Canfora and Ladan Tahvildari, editors, *Proceedings of the 23<sup>rd</sup> International Conference on Software Maintenance (ICSM 2007)*, pages 473–476. IEEE Computer Society, 2007.
46. **Anthony Cleve**, Jean Henrard, and Jean-Luc Hainaut. Data reverse engineering using system dependency graphs. In Susan Elliott Sim and Massimiliano Di Penta, editors, *Proceedings of the 13th Working Conference on Reverse Engineering (WCRE 2006)*, pages 157–166. IEEE Computer Society, 2006.
47. **Anthony Cleve**. Automating program conversion in database reengineering - a wrapped-based approach. In Giuseppe Visaggio, Giuseppe Antonio Di Lucca, and Nicolas Gold, editors, *Proceedings of the 10th European Conference on Software Maintenance and Reengineering (CSMR 2006)*, pages 323–326. IEEE Computer Society, 2006.

#### Book Chapters (5)

1. Jean-Luc Hainaut and **Anthony Cleve**. Stocker. In Julie Henry and Fanny Boraita, editors, *Éduquer au numérique: 12 clés pour comprendre l'informatique*. pages 145-171, Politeia, 2021.

2. **Anthony Cleve**, Nesrine Noughi\*, and Jean-Luc Hainaut. Dynamic program analysis for database reverse engineering. In Ralf Lämmel, Joao Saraiva, and Joost Visser, editors, *Generative and Transformational Techniques in Software Engineering*, volume 7680 of *Lecture Notes in Computer Science*, pages 297–321. Springer, 2013.
3. Jean-Luc Hainaut, Anne-France Brognaux, and **Anthony Cleve**. Healthcare information system modelling. In Isabel Maria Miranda and Maria Manuela Cruz-Cunha, editors, *Handbook of Research on ICTs for Healthcare and Social Services: Developments and Applications*. ISI Global, 2012.
4. Jean-Luc Hainaut, **Anthony Cleve**, Jean Henrard, and Jean-Marc Hick. Migration of legacy information systems. In Tom Mens and Serge Demeyer, editors, *Software Evolution*, pages 105–138. Springer, 2008.
5. **Anthony Cleve** and Jean-Luc Hainaut. Co-transformations in database applications evolution. In Ralf Lämmel, Joao Saraiva, and Joost Visser, editors, *Generative and Transformational Techniques in Software Engineering*, volume 4143 of *Lecture Notes in Computer Science*, pages 409–421. Springer, 2006.

#### Workshop Papers (14)

1. Kim Mens, Nicolás Cardozo, Bruno Dumas, and **Anthony Cleve**. Beyond context-oriented software. In *Post-proceedings of the 9th Seminar on Advanced Techniques and Tools for Software Evolution (SATToSE 2016)*, volume 1791 of CEUR Workshop Proceedings, pages 5–16. CEUR-WS.org, 2017.
2. Mathieu Humblet\*, Dang Vinh Tran\*, Jens H. Weber, and **Anthony Cleve**. Variability management in database applications. In *Proceedings of the 1st International Workshop on Variability and Complexity in Software Design (VACE 2016)*, co-located with ICSE 2016, pages 21–27. ACM, 2016.
3. Laurence Meurant, **Anthony Cleve**, and Onno Crasborn. Using sign language corpora as bilingual corpora for data mining: Contrastive linguistics and computer-assisted annotation. In *Proceedings of the 7th workshop on the Representation and Processing of Sign Languages: Corpus Mining*, 2016.
4. Nesrine Noughi\* and **Anthony Cleve**. Conceptual interpretation of SQL execution traces for program comprehension. In *Proceedings of the 6th International Workshop on Program Comprehension through Dynamic Analysis (PCODA 2015)*. IEEE Computer Society Press, 2015.
5. Mathieu Beine\*, Nicolas Hames\*, Jens Weber, and **Anthony Cleve**. Bidirectional transformations in database evolution: A case study "at scale". In K. Selçuk Candan, Sihem Amer-Yahia, Nicole Schweikardt, Vassilis Christophides, and Vincent Leroy, editors, *Proceedings of Third International Workshop on Bidirectional Transformations (BX 2014)*, co-located with EDBT/ICDT 2014, volume 1133 of CEUR Workshop Proceedings, pages 100–107. CEUR-WS.org, 2014.
6. Jens Weber, **Anthony Cleve**, Loup Meurice\*, and Francisco Javier Bermudez\*. Managing technical debt in database schemas of critical software. In *Proceedings of the Sixth International Workshop on Managing Technical Debt*, pages 461–464. IEEE Computer Society, 2014.
7. Marco Mori\* and **Anthony Cleve**. Towards highly adaptive data-intensive systems: A research agenda. In *Proceedings of First International Workshop on Variability Support in Information Systems (VarIS 2013)*, volume 148 of *Lecture Notes in Business Information Processing*, pages 386–401. Springer, 2013.
8. Mathieu Acher, Benoit Baudry, Patrick Heymans, **Anthony Cleve**, and Jean-Luc Hainaut. Support for reverse engineering and maintaining feature models. In *Proceedings of the 7th International Workshop on Variability Modelling of Software-intensive Systems (VaMoS 2013)*, pages 20:1–20:8. ACM, 2013.
9. Marco Mori\* and **Anthony Cleve**. Feature-based adaptation of database schemas. In *Proceedings of the 8th International Workshop on Model-based Methodologies for Pervasive and Embedded Software (MOMPES 2012)*, volume 7706 of *Lecture Notes in Computer Science*, pages 85–105. Springer, 2013.
10. Mathieu Acher, **Anthony Cleve**, Gilles Perrouin, Patrick Heymans, Philippe Collet, and Philippe Lahire. On extracting feature models from product descriptions. In *Proceedings of the 6th International Workshop on Variability Modelling of Software-intensive Systems (VaMoS 2012)*, pages 45–54. ACM, 2012.
11. Gabriel Tamura, Ruby Casallas, **Anthony Cleve**, and Laurence Duchien. QoS contracts-aware reconfiguration of component architectures using e-graphs. In *Post-proceedings of the 7th International Workshop on Formal Aspects of Component Software (FACS 2010)*, *Lecture Notes in Computer Science*, pages 34–52. Springer, 2011.
12. **Anthony Cleve**, Jonathan Lemaitre, Jean-Luc Hainaut, Christophe Mouchet, and Jean Henrard. The role of implicit schema constructs in data quality. In Paolo Missier, Xuemin Lin, Ander de Keijzer, and Maurice van Keulen, editors, *Proceedings of the 6th International Workshop on Quality in Databases (QDB 2008)*, volume 08 of CTIT

Workshop Proceedings Series, pages 33–40. Centre for Telematics and Information Technology, University of Twente, 2008.

13. **Anthony Cleve**, Jean Henrard, and Jean-Luc Hainaut. Co-transformations in information system reengineering. In Jean-Marie Favre, Michael W. Godfrey, and Andreas Winter, editors, *Proceedings of the 2nd International Workshop on Meta-Models, Schemas and Grammars for Reverse Engineering (ATEM 2004)*, volume 137 of Electronic Notes in Theoretical Computer Science, pages 5–15. Elsevier, October 2005.
14. Jean Henrard, **Anthony Cleve**, and Jean-Luc Hainaut. Inverse wrappers for legacy information systems migration. In Philippe Thiran and Willem-Jan van den Heuvel, editors, *Proceedings of the 1st International Workshop on Wrapper Techniques for Legacy Systems (WRAP 2004)*, volume 04-34 of CS Report, pages 30–43. Technische Universiteit Eindhoven, October 2004.

#### Edited Volumes (8)

1. **Anthony Cleve**, Ekkart Kindler, Perdita Stevens, and Vadim Zaytsev, editors. *Multidirectional transformations and synchronisations (Dagstuhl seminar 18491)*. Dagstuhl Reports, 8(12):1–48, 2018.
2. Tom Mens, Alexander Serebrenik, and **Anthony Cleve**, editors. *Evolving Software Systems*. Springer, 2014. [This book is used among the references of my Master-level course on Information System Evolution](#)
3. Tom Mens and **Anthony Cleve**, editors. *Special Issue on CSMR 2012*, volume 26 of *Journal of Software: Evolution and Process*. Wiley, 2012.
4. **Anthony Cleve**, Filippo Ricca, and Maura Cerioli, editors. *Proceedings of the 17th European Conference on Software Maintenance and Reengineering (CSMR 2013)*. IEEE Computer Society, 2013.
5. Andrea Capiluppi, **Anthony Cleve**, and Naouel Moha, editors. *Special Issue on Automated Software Evolution*, volume 85 of *Journal on Software and Systems*. Elsevier, October 2012.
6. Tom Mens, **Anthony Cleve**, and Rudolf Ferenc, editors. *Proceedings of the 16th European Conference on Software Maintenance and Reengineering (CSMR 2012)*. IEEE Computer Society, 2012.
7. **Anthony Cleve** and Romain Robbes, editors. *Proceedings of the 12th International Workshop on Principles of Software Evolution and the 7th annual ERCIM Workshop on Software Evolution (EVOL/IWPSE 2011)*. ACM, 2011.
8. Andrea Capiluppi, **Anthony Cleve**, and Naouel Moha, editors. *Proceedings of the Joint ERCIM Workshop on Software Evolution and International Workshop on Principles of Software Evolution (IWPSE/EVOL 2010)*. ACM, 2010.

#### Editorials (3)

1. Jurgen J. Vinju and **Anthony Cleve**. Software quality - introduction to the special theme. *ERCIM News*, 2014(99), 2014.
2. Tom Mens and **Anthony Cleve**. CSMR 2012 special issue - guest editorial. *Journal of Software: Evolution and Process*, 26(8):729, 2014.
3. Andrea Capiluppi, **Anthony Cleve**, and Naouel Moha. Guest editor's introduction to the special issue on automated software evolution. *Journal on Software and Systems*, 85(10):2193–2194, October 2012.



## AWARDS AND HONORS

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- **Best Paper Award** at the 20th IEEE Working Conference on Source Code Analysis and Manipulation (SCAM 2020), NIER track
- **Best Paper Award** at the 2016 IEEE International Conference on Software Quality, Reliability and Security (QRS 2016)
- **Nominee** for the **Cor Baayen Award 2012** (top 20 finalist), awarded each year by ERCIM to a promising young researcher in computer science and applied mathematics in Europe (28 countries)
- **IBM Belgium / F.R.S. - FNRS 2010 Award** for the best PhD thesis in Computer Science
- **ERCIM “Alain Bensoussan” Post-doctoral Fellowship** (Dec. 2009 - Nov. 2010)

## CITATION METRICS (IF YOU CARE ABOUT SUCH THINGS)

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**According to Google Scholar** (accessed: October 2022)

- 1741 citations; 791 in the last 5 years
- 45 articles with more than 10 citations; 28 in the last 5 years
- h-index of 25; 16 in the last 5 years

**According to Scopus** (accessed: October 2022)

- cited 817 times by 605 documents
- h-index of 17

## INVOLVEMENT IN PHD RESEARCH

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### Supervision of PhD theses (9)

*2 completed, 2 confirmed, 4 to-be-confirmed, 1 stopped*

- Since 2022** **Maxime André**, “Automated Database Schema Evolution in Microservices Applications”, University of Namur
- since 2020** **Boris Cherry**, “Improving database interactions in NoSQL applications”, University of Namur  
*confirmation exam planned in September 2022*
- since 2020** **Pol Benats**, “Recommendation systems for data-intensive software evolution”, University of Namur  
*confirmation exam planned in September 2022*
- since 2020** **Jérôme Fink**, “Sign language recognition and analysis using Deep Learning”, University of Namur  
*main advisor: Prof. Benoît Frenay - confirmation exam planned in 2022-2023*
- since 2019** **Rabeb Abida**, “Semantic enrichment and exploitation of Open Data”, University of Namur  
*confirmation exam passed in June 2021. Public defense planned in June 2023.*
- since 2018** **Maxime Gobert**, “Data modelling and manipulation for hybrid polystores”, University of Namur  
*confirmation exam passed in May 2021. Public defense planned in December 2022.*
- 2019-2021** **Aboubacar Sylla**, “Dynamic analysis for hybrid polystore monitoring”, University of Namur  
*stopped in December 2021*
- 2013–2017** **Loup Meurice**, “Analyzing, understanding and supporting the evolution of dynamic and heterogeneous data-intensive software systems”, University of Namur  
*defended in June 2017*
- 2012–2018** **Nesrine Noughi**, “Understanding data-intensive systems using dynamic analysis and visualization”, University of Namur  
*co-advisor: Prof. Najji Habra - defended in June 2018*

#### **Jury member of PhD theses at other institutions (11)**

- **Chair of the PhD committee** for Alberto Hernandez Chillon (University of Murcia), Multi-Model Database Engineering based on a Unified Data Model, July 27, 2022, invited by Prof. Jesús Garcia Molina.
- **External PhD committee member** (rapporteur) for Julien Delplanque (University of Lille), *Managing structural and behavioral evolution in relational database: Application of Software engineering techniques*, September 28, 2020, invited by Prof. Anne Etien.
- **External PhD committee member** for Emad Aghajani (Università della Svizzera italiana, Switzerland), *Automating Developer Documentation*, June 18, 2020, invited by Prof. Michele Lanza.
- **External PhD committee member** for Gilles Neyens (University of Luxembourg), *Confidence-based decision-making support for multi-sensor systems*, 2019, invited by Prof. Denis Zampunieris.
- **External PhD committee member** (rapporteur) for Vincent Blondeau (University of Lille), *Test Selection Habits of Developers in a Large IT Company*, November 2017, invited by Prof. Anne Etien.
- **External PhD committee member** for Remus Dobrican (University of Luxembourg), *Collaborative Rule-Based Proactive Systems: Model, Information Sharing Strategy and Case Studies*, December 2016, invited by Prof. Denis Zampunieris.
- **External PhD committee member** for Laurent Kirsch (University of Luxembourg), *The Snippet Platform - A Holistic Approach to Document-Centric and Context-Based Authoring*, 2014, invited by Prof. Steffen Rothkugel.
- **External PhD committee member** for Sergio Castro (UCLouvain), *A Portable Approach for Bidirectional Integration between a Logic and a Statically-Typed Object-Oriented Programming Language*, 2014, invited by Prof. Kim Mens.
- **External PhD reviewer** for Marco Mori (IMT Lucca, Italy), *A Framework to Support Consistent Design and Evolution of Adaptive Systems*, March 2012, invited by Prof. Paola Inverardi.
- **External PhD committee member** for Carlos Andres Parra (Université de Lille 1, France), *Towards Dynamic Software Product Lines: Unifying Design and Runtime Adaptations*, March 2011, invited by Prof. Laurence Duchien.
- **External PhD committee member** for Diego Ordonez (Université catholique de Louvain, Belgium), *A product-line for families of program translators: A grammar-based approach*, August 2010, invited by Prof. Kim Mens.

#### **Jury member of PhD theses at University of Namur (6)**

- **Internal PhD committee member** for Adrien Bibal (University of Namur), *Interpretability and explainability in machine learning with application to nonlinear dimensionality reduction*. October 2020, invited by Prof. Benoît Frenay.
- **Internal PhD committee member** for Hajer Ayed (University of Namur), *Guiding Agile Methods Customization: the AMQuCk Framework*, 2018, invited by Prof. Naji Habra.
- **Internal PhD committee member** for Corentin Burnay (University of Namur), *Essays on Information Elicitation for Decision-Making in Systems Engineering: Improving Completeness of Requirements*, 2016, invited by Prof. Stephane Faulkner and Dr. Ivan Jureta.
- **Internal PhD committee member** for Amanuel Koshima (University of Namur), *A Distributed Collaborative Model Editing Framework for Domain Specific Modeling Languages*, 2015, invited by Prof. Vincent Englebert.
- **Internal PhD committee member** for Ebrahim Abbasi (University of Namur), *Reverse Engineering Web Configurators*, 2014, invited by Prof. Patrick Heymans.
- **Internal PhD committee member** for Benoit Vanderose (University of Namur), *Supporting a model-driven and iterative quality assessment methodology: the MoCQA framework*, December 2012, invited by Prof. Naji Habra.

#### **Supervision of PhD research internships (4)**

- **Carlos Javier Fernandez Candel**, University of Murcia, Spain, PhD advisor: Jesús Garcia-Molina. April-June 2019.
- **Julien Delplanque**, University of Lille, France, PhD advisor: Anne Etien. January 2018.
- **Emad Aghajani**, Università della Svizzera italiana, Switzerland, PhD advisor: Michele Lanza, December 2017.
- **Javier Bermudez**, University of Murcia, Spain, main advisor: Jesús Garcia-Molina. March-May 2014.

#### **Director of Master theses (22)**

(see *Enseignement*)

## SCIENTIFIC ACTIVITIES

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### Invited talks, seminars and lectures (15)

- Invited seminar at **Università della Svizzera italiana**, SI seminar series, invited by Prof. Michele Lanza. Title: *Analyzing and Supporting the Evolution of Data-Intensive Systems*. October 2021.
- Invited talk at **Ecole Polytechnique Montréal**, Canada, invited by Prof. Foutse Khomh. Title: *Analyzing the Evolution of Data-Intensive Systems*. April 2019.
- Invited talk at **Concordia University**, Canada, invited by Prof. Yann-Gaël Guéhéneuc. Title: *Analyzing the Evolution of Data-Intensive Systems*. April 2019.
- Invited talk at **University of Murcia**, Spain, invited by Prof. Jesus Garcia-Molina. Title: *Analyzing the Evolution History of Data-Intensive Systems in Support to Software Maintenance*. March 2019.
- Invited talk at the **FNRS Contact Group on Data Quality**, ULB, Brussels (invited by Prof. Isabelle Boydens). Title: *Analyzing the Evolution of Data-Intensive Software Systems in Support to Software Maintenance*. August 2015.
- Short talk at the **Grascomp Doctoral Day**, Namur, invited by Prof. Pierre Manneback. Title: *Data-Intensive System Evolution*. December 2015.
- Invited seminar at **TU/Delft**, Delft, The Netherlands, invited by Prof. Arie van Deursen. Title: *Analyzing the Evolution of Data-Intensive Systems*. August 2015.
- Invited lecture, Master in Computer Science, **University of Victoria**, Canada, invited by Prof. Jens Weber. Title: *Migration of Legacy Information Systems*. October 2012.
- Invited short tutorial at the **4th International Summer School on Generative and Transformational Techniques in Software Engineering (GTTSE 2011)**, Braga, Portugal, invited by Prof. Ralf Lämmel. Title: *Dynamic Program Analysis for Database Reverse Engineering*. July 2011.
- Invited lecture at “Questions Actuelles en Informatique”, Engineering degree in Informatics, **Université Libre de Bruxelles**, Belgium, invited by Prof. Esteban Zimanyi. Title: *Program Analysis for Database Reverse Engineering*. March 2011.
- Invited lecture at “Software Evolution seminar”, Master in Computer Science, **University of Mons**, Belgium, invited by Prof. Tom Mens. Title: *Dynamic Analysis of SQL Statements for Database Reverse Engineering*. February 2011.
- Invited lecture at “Capita Selecta in Software Flexibility”, Master in Computer Science, **University of Antwerp**, Belgium, invited by Dr. Dirk Derrider. Title: *Introduction to Software Product Line Engineering*. February 2010.
- Invited Lecture at “Software Evolution seminar”, Master in Computer Science, **University of Mons**, Belgium, invited by Prof. Tom Mens. Title: *Program Analysis and Transformation for Data-Intensive System Evolution*. February 2010.
- Invited talk at “IPA Fall Days 2008”, **Dutch doctoral school**, Nunspeet, The Netherlands (invited by Prof. Paul Klint and Prof. Arie van Deursen). Title: *Co-Analysis and Co-evolution of Databases and Programs*. October 2008.

### Scientific networks & communities

- **Co-Chair** of the ERCIM Working Group on Software Evolution, 2010-2014.
- **Steering Committee member** of IWPSE, the International Workshop on Principles of Software Evolution, 2010-2014.
- **External member** of the RIMEL research network (CNRS), regrouping the main french-speaking research teams interested in software reverse engineering, maintenance and evolution.

### Organizing committees of scientific events (13)

- **Co-organizer** for the Dagstuhl Seminar on Multidirectional Transformations and Synchronisations (Dagstuhl Seminar 18491), Dagstuhl, Germany, 2018.
- **Workshop co-Chair** of the International Workshop on Live Adaptation of Software Systems (LASSY 2016), Malaga, Spain, 2016.
- **Publicity co-Chair** for the 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2016). Osaka, Japan. 2016.
- **Liaison co-Chair** for the IEEE CSMR-WCRE 2014 Software Evolution Week, Antwerp, Belgium, 2014.
- **Program co-Chair** of the 17th European Conference on Software Maintenance and Reengineering (CSMR 2013), Genova, Italy, 2013.
- **Tool demonstrations co-chair** of the 29th International Conference on Software Maintenance (ICSM 2013), Eindhoven, The Netherlands, 2013.

- **Program co-Chair** of the 16th European Conference on Software Maintenance and Reengineering (CSMR 2012), Szeged, Hungary, 2012.
- **Publicity co-Chair** of the 30th International Conference on Conceptual Modeling (ER 2011), Brussels, Belgium, 2011.
- **Demonstration co-Chair** of the 8th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2011), Szeged, Hungary, 2011.
- **Program co-Chair** of IWPSE-EVOL 2011, the joint International Workshop on Principles of Software Evolution (IWPSE) and ERCIM Workshop on Software Evolution and Evolvability (EVOL) – held in conjunction with ESEC/FSE'2011, Szeged, Hungary, 2011.
- **Tool demonstrations co-chair** of the 25th IEEE/ACM International Conference on Automated Software Engineering (ASE 2010), Antwerp, Belgium, 2010.
- **Publicity co-Chair** of the 3rd International Conference on Software Language Engineering (SLE 2010), Eindhoven, The Netherlands, 2010.
- **Program co-Chair** of IWPSE-EVOL 2010, the joint International Workshop on Principles of Software Evolution and ERCIM Workshop on Software Evolution and Evolvability, Antwerp, Belgium, 2010.

#### **Program committees of international conferences and workshops (43)**

- 45th International Conference on Software Engineering (ICSE 2023), 2023.
- 2023 ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2023), 2023.
- 38th IEEE International Conference on Software Maintenance and Evolution (ICSME 2022), 2022
- 30th IEEE/ACM International Conference on Program Comprehension (ICPC 2022), 2022.
- 2021 ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2021), 2021.
- 37th IEEE International Conference on Software Maintenance and Evolution (ICSME 2021), 2021.
- 9th IEEE Working Conference on Software Visualization (VISSOFT 2021), 2021.
- 20th Belgium-Netherlands Software Evolution Workshop (BENEVOL 2021), 2021.
- 36th IEEE International Conference on Software Maintenance and Evolution (ICSME 2020), 2020.
- 8th IEEE Working Conference on Software Visualization (VISSOFT 2020), 2020.
- 26th IEEE/ACM International Conference on Program Comprehension (ICPC 2018), 2018.
- 25th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER 2018), 2018.
- 7th International Workshop on Bidirectional Transformations (BX 2018), 2018
- 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME 2017), 2017.
- 25th International Conference on Program Comprehension (ICPC 2017), 2017.
- 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2017), ERA track, 2017.
- 24th International Conference on Program Comprehension (ICPC 2016), 2016.
- 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME 2016), 2016.
- 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2016), 2015.
- 10th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2015), 2015.
- 30th International Conference on Software Maintenance (ICSM 2014), 2014.
- IEEE CSMR-WCRE 2014 Software Evolution Week, 2014.
- 3rd International Workshop on Bidirectional Transformations (BX 2014), 2014.
- 29th International Conference on Software Maintenance (ICSM 2013), 2013.
- 21st International Conference on Program Comprehension (ICPC 2013), 2013.
- 9th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2013), tool demo track, 2013.
- 2nd International Workshop on Bidirectional Transformations (BX 2013), 2013.
- 32nd International Conference on Software Engineering (ICSE 2012), Formal tool demo track, 2012.
- 28th International Conference on Software Maintenance (ICSM 2012), 2012.
- 27th IEEE/ACM International Conference on Automated Software Engineering (ASE 2012), Tool demo track, 2012.
- 19th Working Conference on Reverse Engineering (WCRE 2012), 2012.
- 2nd International Symposium on the Foundations of Health Information Engineering and Systems (FHIES 2012), 2012.

- First International Workshop on Bidirectional Transformations (BX 2012), 2012.
- Première conférence en Ingénierie du Logiciel (CIEL 2012), 2012.
- 26th IEEE/ACM International Conference on Automated Software Engineering (ASE 2011), Tool demo track, 2011.
- 18th International Working Conference on Reverse Engineering (WCRE 2011), 2011.
- 27th International Conference on Software Maintenance (ICSM 2011), ERA & Tool tracks, 2011.
- 4th International Conference on Software Language Engineering (SLE 2011), 2011.
- 15th European Conference on Software Maintenance and Reengineering (CSMR 2011), 2011.
- First International Workshop on Software Variability Management (Variability@ER 2011), 2011.
- 1st International Workshop on Model-Driven Software Migration (MDSM 2011), 2011.
- 17th International Working Conference on Reverse Engineering (WCRE 2010), 2010.
- 3rd International Conference on Software Language Engineering (SLE 2010), 2010.
- 8th Belgian-Netherlands software eVOLUTION seminar (BENEVOL 2009), 2009.

#### **Reviewing of research project proposals**

- **Ambizione Program**, Swiss National Science Foundation (SNSF), Switzerland, 2021
- **Appel Actions de Recherche Concertées (ARC) 2018**, UNamur & UCLouvain, Belgium, 2017
- **Appel Fonds de la Recherche Hautes Écoles**, Fédération Wallonie-Bruxelles (FWB), Belgium, 2019
- **Ecoles Universitaires de Recherche**, Agence Nationale de la Recherche (ANR), France, 2018
- **Bergen Research Foundation**, Norway, 2014
- **Veni Research Program**, NWO, The Netherlands, 2014
- **Vrije Competitie**, NWO, The Netherlands, 2011

#### **Award committees**

- **President of the Jury** of the IBM Belgium F.R.S-FNRS Award, 2022
- **Jury Member** of the IBM Belgium F.R.S-FNRS Award, 2020.
- **Jury Member** of the IBM Belgium F.R.S-FNRS Award, 2016.

## II. ENSEIGNEMENT

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### ENSEIGNEMENT À L'UNAMUR (CHARGE ACTUELLE)

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*Ma charge actuelle comprend 6 unités d'enseignement (UE), pour un total de 195 heures de théorie :*

- **depuis 2011** **Evolution de systèmes d'information** - INFO M218<sup>4</sup> (30h, Q1)  
Master 120 en sciences informatiques, finalité spécialisée en software engineering (5 ECTS)  
Master 60 en sciences informatiques à horaire décalé (4 ECTS)  
Entre 20 et 25 étudiants durant les 5 dernières années  
*UE en lien direct avec mon domaine de recherche: la maintenance et l'évolution de systèmes logiciels utilisant intensivement une (des) base(s) de données. Inclut des exposés d'experts internationaux, des travaux pratiques de type 'hands-on', et un mini-workshop scientifique durant lequel les étudiants présentent et discutent des travaux récents dans le domaine.*
- **depuis 2011** **Bases de données (1<sup>ère</sup> partie)** - INFO B135<sup>5</sup> (Th. 30h, TP 10h, Q2)  
Bachelier en sciences informatiques, bloc 1 Bachelier en sciences informatiques (5 ECTS)  
Entre 100 et 150 étudiants durant les 5 dernières années  
*Introduction générale aux bases de données relationnelles : concepts de base, maîtrise du langage SQL, analyse conceptuelle (modèle entité-associations de base), conception logique relationnelle et normalisation de schémas de bases de données. Chaque partie du cours fait l'objet de séances de travaux pratiques sur papier ou sur machine.*
- **depuis 2011** **Bases de données 1** - IHDC B234 (Th. 30h, TP 15h, Q2)  
Bachelier en sciences informatiques à horaire décalé, bloc 2 (10 ECTS)  
entre 10 et 20 étudiants durant les 5 dernières années  
*Correspond à l'UE INFO B135, dispensée à horaire décalé, avec davantage de TPs.*
- **depuis 2012** **Bases de données (2<sup>ème</sup> partie)** - INFO B212<sup>6</sup> (Th. 45h, TP 15h, Q1 et Q2)  
Bachelier en sciences informatiques, bloc 2 (3 ECTS)  
Bachelier en sciences mathématiques, bloc 3 (5 ECTS)  
Unités d'enseignement supplémentaires au master 60 en sc. informatiques (4 ECTS)  
Unités d'enseignement supplémentaires au master 120 en sc. informatiques (4 ECTS)  
entre 35 et 85 étudiants durant les 5 dernières années  
*Suite d'INFO B135, extension des bases théoriques et méthodologique, renforcement des compétences techniques des étudiants. Enrichissement du modèle entités-association, éléments avancés du langage SQL (vues, droits d'accès, etc.), codage de contraintes d'intégrité (check, triggers, stored procedures). Inclut un projet de groupe de conception d'une base de données de A à Z.*
- **depuis 2012** **Bases de données 2** - IHDC B334 (Th. 30h)  
Bachelier en sciences informatiques à horaire décalé, bloc 3 (5 ECTS)  
Unités d'enseignement supplémentaires au master 60 en sc. informatiques HD (6 ECTS)  
Entre 30 et 50 étudiants durant les 5 dernières années  
*Correspond à l'UE INFO B212 adaptée à un public d'horaire décalé : contenu théorique légèrement allégé, projet de groupe remplacé par des exercices dirigés et des défis réalisés en séance.*
- **depuis 2017** **Big data : ingénierie et traitement** - IDAS M101 (Th. 30h, TP 15h)  
Master 120 en sciences informatiques, finalité spécialisée en Data Science  
Certificat d'Executive Master en Data Science  
Co-titulariat avec Stéphane Faulkner, suppléant Joseph Gillain (2017-2020)  
Entre 25 et 50 étudiants durant les 4 dernières années  
*Extension des connaissances et compétences des étudiants en gestion de sources de données volumineuses et complexes : paradigmes de bases de données NoSQL; conception de systèmes reposant sur plusieurs sources de données (hétérogènes); langages et algorithmes de manipulation efficace de grands volumes de données via un traitement parallèle (MapReduce).*

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<sup>4</sup> de 2011 à 2012, cette UE était dispensée sous le code INFO M424

<sup>5</sup> de 2011 à 2018, cette UE était dispensée en bloc 2 sous le code INFO B235

<sup>6</sup> de 2011 à 2018, cette UE était dispensée en bloc 3 sous le code INFO B312

## ENSEIGNEMENT À L'UNAMUR (ATTRIBUTIONS PRÉCÉDENTES)

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- **2012–2015** **Modèles de calcul et bases de données** - ECGE B110 (Th. 30h, TP 15h, Q1)  
Bachelier en sciences économiques et de gestion, bloc 1 (4 ECTS)  
Bachelier en sciences politiques, orientation générale, bloc 1 (4 ECTS)  
Bachelier en information et communication, bloc 1 (4 ECTS)  
Bachelier en droit, bloc 2 et bloc 3 (4 ECTS)  
Entre 250 et 300 étudiants sur la période 2012-2015  
*Introduction générale à l'informatique, aux systèmes d'information et aux bases de données, focus particulier sur la conception de modèles de calculs et leur implémentation dans Excel. Cours destiné à un groupe de plus de 250 étudiants primo-arrivants en sciences humaines.*
- **2013–2014** **Questions spéciales d'ingénierie du logiciel et de l'information** - INFO M435 (Th. 30h)  
Master 120 en sciences informatiques, finalité spécialisée  
Co-titulariat « tournant » avec Vincent Englebert, Naji Habra et Patrick Heymans  
10 étudiants en 2013-2014  
*Cours à option, dont le thème changeait chaque année, ayant pour but d'apporter aux étudiants un éclairage complémentaire relatif à l'ingénierie du logiciel. Durant l'année académique 2012-2013, j'ai centré le cours sur la problématique du test logiciel, une compétence importante qui à l'époque n'était pas présente explicitement dans le programme de cours de Master en informatique.*
- **2011–2014** **Questions spéciales de systèmes d'information** - INFO M425 (Th. 30h)  
Master 120 en sciences informatiques, finalité spécialisée  
Co-titulariat avec Claire Lobet, Nathalie Grandjean et Michael Petit  
Entre 12 et 18 étudiants sur la période 2011-2014  
*Cours-projet multi-disciplinaire, motivant et enrichissant pour les étudiants, qui devaient répondre, par groupe, à un problème exprimé sous la forme d'une question souvent « déconcertante », en considérant plusieurs dimensions: technique, sociologique, économique, organisationnelle et éthique. Nous leur avons lancé le défi de prédire des phénomènes à partir des données disponibles sur Twitter, ou encore d'exploiter l'Open Data à des fins tantôt philanthropiques, tantôt malveillantes.*

## ENSEIGNEMENT DANS D'AUTRES INSTITUTIONS UNIVERSITAIRES

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- **2021–2022** **Università della Svizzera italiana (Suisse)**, Faculty of Informatics  
**S&DE Atelier: Design 101 – Database module** (Th. 28h + projet)  
Master of Science in Software & Data Engineering (6 ECTS)  
Co-titulariat avec Michele Lanza (cours de 56h)  
*Refonte complète, dispensée en anglais, de mon cours d'évolution namurois (INFO M218), complété d'un projet de groupe inédit.*
- **2010–2018** **Université Libre de Bruxelles (ULB)**, Faculté de Philosophie et Lettres  
**Banques de données** - STIC B405 (24h, TP 24h)  
Master 120 en sciences et Technologies de l'information et de la communication (5 ECTS)  
Master 120 en sciences actuarielles (5 ECTS)  
Master 120 en histoire - finalité histoire et administrations (5 ECTS)  
Master 120 en histoire de l'art et archéologie, orientation musicologie (5 ECTS)  
Master 60 en histoire de l'art et archéologie, orientation musicologie (5 ECTS)  
*Correspond à mon premier cours de bases de données namurois (INFO B135), dispensé à horaire décalé, et adapté à un public non-informaticien.*
- **2010–2018** **Université Libre de Bruxelles (ULB)**, Faculté de Philosophie et Lettres  
**Conception et gestion des banques de données** - STIC B505 (Th. 24h, TP 24h)  
Master 120 en sciences et technologies de l'information et de la communication (5 ECTS)  
Master 120 en sciences actuarielles (5 ECTS)  
Master 120 en histoire - finalité histoire et administrations (5 ECTS)  
Master 120 en histoire de l'art et archéologie, orientation musicologie (5 ECTS)  
Master 60 en histoire de l'art et archéologie, orientation musicologie (5 ECTS)  
*Version allégée de mon second cours de bases de données namurois (INFO B212), dispensé à horaire décalé, et adapté à un public non-informaticien issus de différents cursus. Projet de groupe de conception de base de données en lien direct avec les formations respectives des étudiants.*

## ENSEIGNEMENT DANS LE CADRE DE FORMATIONS CONTINUES

- **depuis 2017** **Module bases de données** (10 h)  
 Certificat d'Executive Master en Data Science  
 Université de Namur  
*Module proposé aux étudiants s'inscrivant au certificat en data science de l'UNamur, et souhaitant une remise à niveau préalable en bases de données*
- **2013–2014** **Introduction aux systèmes d'information et aux bases de données** (8h)  
 Formation interuniversitaire en management des pouvoirs locaux  
 Institut Européen de Management Public (INEMAP, ULB)  
 Laboratoire européen d'administration régionale et locale (LEDAREL, ULg)  
*Formation destinée aux agents de niveau A1 et A1Sp de l'ensemble des communes, provinces et CPAS de la Région wallonne*
- **2010–2014** **Introduction aux bases de données et au SGBD MySQL** (12h)  
 Formation à l'usage des TICs dans les bibliothèques universitaires  
 Université Libre de Bruxelles (ULB)  
*Formation soutenue par la Commission Universitaire pour le Développement (CUD), organisée sous la forme d'un stage à destination de professionnels travaillant au sein d'une bibliothèque universitaire dans un pays du Sud*

## MÉTHODES ET PRATIQUES PÉDAGOGIQUES (UNAMUR)

*Mes enseignements reposent sur des méthodes et des pratiques pédagogiques variées, souvent hybrides au sein d'un même cours*

	INFO B135	INFO B212	IHDC B234	IHDC B334	INFO M218	IDAS M101	INFO M425	INFO M434	ECGE B110
Cours ex-cathedra	X	X	X	X	X	X		X	X
Exposés d'experts étrangers					X		X	X	
Exercices et mini-défis durant les cours	X	X	X	X					
Travaux pratiques sur papier	X	X	X			X			X
Travaux pratiques sur machine	X		X						X
Apprentissage par projet		X			X		X		
Apprentissage par problème					X		X		
Mini-workshop scientifique					X				
Classe "semi-inversée"			X						
Évaluation et feedback en continu		X			X		X		
Examen blanc	X	X	X	X					X
Évaluation des <i>soft skills</i> (travail en équipe, compétences rédactionnelles, communication orale, etc.)		X			X		X	X	
Évaluation sur machine									X
Cours disponibles sous format vidéo	X	X	X	X	X				



## SUPERVISION DE MÉMOIRES DE MASTER (DÉFENDUS)

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- [35 mémoires supervisés, correspondant à 23 mémoires défendus<sup>7</sup>](#)
- [2 mémoires récompensés par le prix Jean Fichet \(2013 et 2021\)](#)
- [5 mémoires ayant fait l'objet de publications internationales](#)
- [note moyenne de 16,4/20 en Master 120 et de 14,4/20 en Master 60 \(jour ou à horaire décalé\)](#)
- **Maxime André**, *Recommandations pour des Interfaces Humain-Machine Adaptées aux Personnes Atteintes de Surdit *, Master 120 en sciences informatiques, 2022, note : 20/20
- **Anthony Cabello et Romain Verhelle**, * tude des principes d'interpr tation s mantique tabulaire dans l'Open Data*, Master 60 en sciences informatiques, 2021, note : 16,5/20
- **Jehan Bernard et Thomas Kintziger**, *MongoDB Code Smells : Defining, Classifying and Detecting Code Smells for MongoDB Interactions in Java Programs*, Master 120 en sciences informatiques, 2021, note : 20/20 (**Prix Jean Fichet 2021**)
- **S bastien Marbehant**, *Evaluation and improvement of query performance and model visualisation in hybrid polystores*, Master 120 en sciences informatiques, 2021, note: 13,5/20
- **Olivier Chevalier**, *Techniques de r duction de donn es*, Master 60 en sciences informatiques   horaire d cal , 2021, note : 13/20
- **J r me Fink**, *Design and Testing of an Architecture for Deep Learning Experiments Applied to Sign Language Recognition*, Master 120 en sciences informatiques, 2019, co-promoteur: Benoit Frenay, note: 17,5/20 (**publication at BNAIC/BENELEARN 2019**)
- **Thibaut Masson et Romain Ravet**, *Defining referential integrity constraints on NoSQL datastores*, Master 120 en sciences informatiques, 2019, note: 14/20 (**publication at MODELSWARD 2020**).
- **Patrice Coppens**, *Ing nierie du chaos: Approche par r tro-ing nierie*, Master 60 en sciences informatiques   horaire d cal , 2019, note : 15/20
- **J r me Hainaut**, *Etude comparative de l' volution de syst mes d'information*, Master 60 en sciences informatiques   horaire d cal , 2019, note : 13,5/20
- **Carl Henry et Thibaud Staelens**, *Enforcing foreign key constraints in legacy systems*, Master 120 en sciences informatiques, 2018, note: 15/20
- **Patrick George**, *Analyse de l'historique d' volution d'un syst me d'information : focus sur les aspects collaboratifs*, Master 60 en sciences informatiques   horaire d cal , 2017, note : 14,5/20
- **J r my Lebutte et Anne Smal**, *Etude de la faisabilit  d'un support automatis    l'annotation de vid es en langue des signes: Cas du Corpus LSFB*, Master 120 en sciences informatiques, 2017, note : 16/20
- **David Ballarini et Guessing Vondou**, *Elaboration d'une m thode outill e permettant l'analyse du cycle de vie des requ tes de syst mes logiciels dits "data-intensive"*, Master 120 en sciences informatiques, 2016, note : 13,5/20
- **Mathieu Humblet et Dang Tran**, *Variability Management in Database Applications*, Master 120 en sciences informatiques, 2016, note: 17/20 (**publication at VACE 2016**)
- **Bastien Corbaye, Romain Crespeigne et Martin Minet**, *Database migration from relational databases towards NoSQL - Method and implementation*, Master 120 en sciences informatiques, 2015, note : 17/20
- **Mathieu Beine et Nicolas Hames**, *Bidirectional approach to Channel-based database schema evolution*, Master 120 en sciences informatiques, 2014, note: 17,5/20 (**publication at BX 2014**)
- **Martial Lamock**, *Contribution   l'adoption des bases de donn es NoSQL*, Master 60 en sciences informatiques   horaire d cal , 2014, note : 13,5/20
- **Maxime Gobert et Jerome Maes**, *Innovative Techniques and Tools for Database Reverse Engineering in Large Data Intensive Systems*, Master 120 en sciences informatiques, 2013, note : 18/20 (**Prix Jean Fichet 2013, publication at ICSM 2013**)

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<sup>7</sup> En facult  d'informatique, les m moires peuvent se r diger en bin me.

- **Loup Meurice**, *Visualizing SQL Execution Traces for Program Comprehension*, Master 120 en sciences informatiques, 2013, note: 16,5/20
- **David Jacquet et Xavier Mawet**, *FlowER : Simulation and Visualization of the Patient Flow for Decision Making in a Hospital Emergency Department*, Master 120 en sciences informatiques, 2012, co-promoteur : J-L. Hainaut, note : 15/20
- **Piero Folisi**, *Co-analyse schéma-données-programmes en rétro-ingénierie des bases de données*, Master 60 en sciences informatiques à horaire décalé, 2009, co-promoteur : J-L. Hainaut, note : 14,5/20
- **Cédric Aerts**, *Utilisation des vues pour l'évolution des applications de bases de données relationnelles*, Master 60 en sciences informatiques à horaire décalé, 2009, co-promoteur : J.-L. Hainaut, note : 15/20
- **Jonathan Lemaitre**, *Etude de la qualité des applications de bases de données*, Master 120 en sciences informatiques, 2007, co-promoteur : JL. Hainaut, note : 16/20

### III. SERVICE À LA COMMUNAUTÉ ET À LA SOCIÉTÉ

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#### MANDATS INSTITUTIONNELS

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- **2022-2023** **Président** du Conseil du Corps Académique de l'Université de Namur (COACA)
- **2018-2019** **Président** du Groupe de Gouvernance IT de l'Université de Namur  
*Analyse globale de la situation des systèmes d'information et de l'IT à l'UNamur. Interviews de 25 fournisseurs et utilisateurs de services IT, cadastre exhaustif des systèmes informatiques, analyse SWOT, recommandations stratégiques et organisationnelles à destination du CA (certaines déjà mises en œuvre aujourd'hui).*
- **2016-2017** **Membre** de la première commission électorale pour l'élection du Recteur de l'Université de Namur  
*Mission de 6 mois consistant en l'organisation complète de la toute première élection du Recteur de l'UNamur organisée au suffrage universel. Nombreuses tâches incluant la rédaction du règlement électoral, la gestion de la procédure de vote électronique et la coordination de tous les services internes impliqués dans le processus.*
- **2015-2020** **Membre et Vice-Président** (2017) du conseil d'administration de l'Université de Namur, administrateur issu du corps académique  
*Analyse, débats et prises de décisions relatives à de très nombreux dossiers stratégiques pour l'avenir et le développement de l'UNamur.*
- **2015-2020** **Membre** de l'Assemblée générale de l'Université de Namur  
*Participation active aux différents débats, en particulier dans le cadre de la réforme des statuts impliquant une nouvelle articulation entre l'Assemblée générale, le Conseil Rectoral, et le Conseil d'Administration.*
- **2015-2020** **Invité permanent** au Conseil du Corps Académique de l'Université de Namur (COACA)  
*Rôle de courroie de transmission entre le Conseil du Corps Académique, l'Assemblée Générale, et le Conseil d'Administration, dialogue sur les dossiers concernant au premier plan le personnel académique.*
- **2015** **Vice-président** (ad interim) du Conseil du Corps Académique de l'Université de Namur (COACA)  
*Organisation des premières élections électroniques des représentants académiques à l'AG et au COACA. Le système de vote choisi à l'époque est toujours utilisé aujourd'hui.*
- **2012-2014** **Membre** de la cellule de développement des relations avec l'enseignement secondaire (CeDRES)

#### MANDATS FACULTAIRES

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- **2016-2020** **Vice-doyen** de la faculté d'informatique  
*Validation des programmes annuels des étudiants (environ 600 par an), secrétariat des jurys de délibération, présidence des groupes de section, attribution des mémoires et des stages, analyse des demandes d'admission, gestion participative du secrétariat étudiants et création d'un nouveau système de gestion des sujets de mémoires.*
- **2016-2020** **Membre** du bureau de la faculté d'informatique
- **2016-2020** **Président** des groupes de section de la faculté d'informatique (jour et horaire décalé)
- **2012-2014** **Président** de la commission « visibilité, services et communication » de la faculté d'informatique
- **2012-2013** **Membre** du bureau de la faculté d'informatique
- **2011-2012** **Membre** de la commission visibilité de la faculté d'informatique
- **2011-2012** **Directeur** de l'unité d'enseignement *Conception et Développement de Systèmes d'Information* de la faculté d'informatique
- **2011-2012** **Membre** du bureau de la faculté d'informatique

## MANDATS LIÉS À LA RECHERCHE

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- **2017-2018**     **Membre** du bureau de l'institut de recherche NADI
- **2015-2018**     **Président** du centre de recherche PReCISE  
*Contribution active à la création de l'Institut NADI (+/- 150 chercheurs issus de 5 centres de recherche et de 4 facultés)*
- **2012-2015**     **Co-directeur** du centre de recherche PReCISE  
*Co-organisation du PReCISE Day (2012) et gestion de la demande d'agrément officielle du centre (2013)*

## AUTRES SERVICES INTERNES (INSTITUTIONNELS)

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- 2020**     **Membre** du groupe de travail « *Grille d'accompagnement et évaluation des carrières académiques* »
- 2020**     **Membre** de la commission d'évaluation de l'Administrateur Général
- 2019**     **Membre** du groupe de travail « *Politique du télétravail à l'UNamur* »
- 2018-2019**     **Vice-Président** de la commission électorale pour les élections étudiantes de l'UNamur
- 2017-2018**     **Membre** de la commission électorale pour les élections étudiantes de l'UNamur
- 2014**     **Co-organisateur** de la première "Job Day UNamur", regroupant les futurs diplômés en informatique, sciences économiques et de gestion et mathématiques de l'UNamur, 2014
- 2013-2018**     **Membre** du comité de pilotage du réseau Alumni de l'Université de Namur

## AUTRES SERVICES INTERNES (FACULTAIRES)

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- 2022**     **Co-organisateur** de la Chaire Francqui de Schahram Dustdar (TU Vienna)
- 2021**     **Président** des jurys de mémoires du Master en sciences informatiques (horaire décalé)
- 2017**     **Président** des jurys de mémoires du Master en sciences informatiques (jour)
- 2016**     **Organisateur** de la journée d'hommage au professeur Jean-Luc Hainaut
- 2015-2016**     **Membre** du groupe de travail pour la réforme du Master 120 en sciences informatiques
- 2015**     **Membre** du groupe de travail pour la création d'un Master de spécialisation en data science
- 2015**     **Organisateur** de la Chaire Francqui de Michele Lanza (Università della Svizzera italiana)
- 2015**     **Président** des jurys de mémoires du Master en sciences informatiques (jour)
- 2013-2015**     **Organisateur** des 3 premières cérémonies de diplomation de la faculté d'informatique
- 2013**     **Organisateur** de la Chaire Francqui de Serge Abiteboul, 2013 (INRIA et ENS Cachan)
- 2013**     **Organisateur** du souper de retrouvailles de l'ALMIN (290 participants), 2013.
- 2013**     **Organisateur** de la première journée *Devoxx4kids* en Fédération Wallonie-Bruxelles, UNamur, 2013
- depuis 2011**     **Membre** de plusieurs commissions de recrutement:
  - Coordinatrice PAE en facultés des sciences et d'informatique (2018)
  - Coordinatrice pédagogique en faculté d'informatique (2016)
  - Gestionnaire d'évènements et attachée scientifique pour le *Confluent des Savoirs* (2015)
  - Deux chargés de cours en faculté d'informatique (2014)
  - Coordinatrice pédagogique en faculté d'informatique (2013)
  - Responsable de l'administration facultaire en faculté d'informatique (2013)
- 2013**     **Président** des jurys de mémoires du Master en sciences informatiques (horaire décalé)
- depuis 2011**     **Informateur** régulier pour les journées portes ouvertes, visites d'écoles secondaires, salons SIEP, etc.

## SERVICES EXTERNES

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### Comités de recrutement, de nomination et de promotion externes

- **Parlement de Wallonie**, membre externe du comité de recrutement d'un attaché pour le Service informatique de la Direction de la logistique du Greffe du Parlement de Wallonie, 2022.
- **Université de Liège (ULg)**, membre du comité de recrutement d'un nouvel académique, profil « data management », 2021
- **University of York (UK)**, expert externe pour une nomination définitive et une promotion académique, 2020
- **Service Public de Wallonie (SPW)**, membre externe de 3 commissions de recrutement, 1 responsable de la stratégie de gestion de données et 2 administrateurs de bases de données, 2015-2016
- **Ville de Namur**, membre externe de la commission de recrutement d'un informaticien pour le service *DataOffice* de l'administration communale, 2019

### Missions d'expertise diverses

- **Expert** pour l'Institut des Experts Comptables (IEC) et l'Institut Professionnel des Comptables et Fiscalistes agréés (IPCF), mission d'analyse des infrastructures informatiques respectives et recommandations techniques en vue de la fusion des deux instituts, 2019
- **Expert** pour la Cellule de Coopération au Développement de l'ARES, marché public GIRAF, analyse du cahier des charges, analyse et évaluation des offres, interview des soumissionnaires, 2015 et 2017

### Membre d'ASBL externes

- **Membre** de l'Assemblée Générale de l'ASBL SAPEFUN, depuis 2014
- **Membre** de l'Assemblée Générale et du Conseil d'Administration de l'Institut Ste Marie Jambes (ISMJ), 2015-2016

## PROMOTION, VISIBILITÉ ET RAYONNEMENT EXTERNE

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### Participation à des contenus ou événements à destination d'un large public

- Participation à une vidéo promotionnelle de l'UNamur, dédiée à la proximité avec les étudiants, 2021  
[https://www.youtube.com/watch?v=PMsP\\_NzKx3w](https://www.youtube.com/watch?v=PMsP_NzKx3w)
- Participation à une vidéo de présentation de la faculté d'informatique de l'UNamur, 2021  
<https://www.youtube.com/watch?v=Z2odkUAzhcE>
- Réalisation artisanale (en plein confinement) d'une courte vidéo de présentation des mes cours de bases de données, Journées Portes Ouvertes, 2020  
<https://medias.unamur.be/permalink/v125f52b97a7c8djub9w/iframe/>
- Panéliste invité au FNRS.Awards 2019 sur le sujet « *Science et récompenses* », FNRS, 2019  
<https://www.frs-fnrs.be/fr/prix-mecenats-resp/fnrs-awards/fnrs-awards-2019>
- Participation à une vidéo de présentation du dictionnaire contextuel français-langue des signes, 2018  
<https://www.youtube.com/watch?v=PFhBF1ZAWpA>
- Orateur invité lors de la soirée des Alumni de l'UNamur, sur le thème « *Si j'avais 20 ans à Namur en 2035* », 2015  
<https://www.unamur.be/anciens/archives/evenement>  
<https://www.unamur.be/anciens/archives/evenement/infonews> (texte du discours en pages 22-24)

### Visibilité dans les médias internes, les médias web, ou dans la presse

- **Nouvelles UNamur**, 17/05/21 *Le projet H2020 TYPHON noté "Excellent" de la part des experts scientifiques internationaux désignés par la Commission Européenne*  
<https://nouvelles.unamur.be/upnews.2021-05-17.6230487216/view>
- **L'Avenir**, 8/02/21 *Pas envie d'être un numéro?*  
[https://www.lavenir.net/cnt/dmf20210208\\_01552808/pas-envie-d-etre-un-numero](https://www.lavenir.net/cnt/dmf20210208_01552808/pas-envie-d-etre-un-numero)

- **dailyscience.be**, 24/02/20 *Les prix scientifiques, sont-ils la cause ou la conséquence de l'excellence?*  
<https://terranostra.unamur.be/sevrex/revue-de-presse/revue-de-presse-2020/fevrier-2020/Revue%20de%20la%20presse%20des%2024%20et%2025%20fevrier%202020.pdf>
- **Omalius**, juin 2018, page 11 *Une avancée dans la recherche de pointe menée en langue des signes*  
<https://www.unamur.be/omalius/2018/juin/omalius-ndeg-10-juin-2018>
- **Canal C**, 31/05/18 *Bientôt un dictionnaire français-langue des signes*  
<http://www.canalc.be/bientot-un-dictionnaire-francais-langue-des-signes/>  
<https://terranostra.unamur.be/sevrex/revue-de-presse/revue-de-presse-2018/mai-2018/Revue%20de%20presse%2031-05-2018.pdf/>
- **Daily Science**, 29/04/18 *L'Unamur prépare un dictionnaire bilingue « français-langue des signes »*  
<http://dailyscience.be/29/04/2018/les-yeux-et-les-oreilles-de-daily-science-102/>
- **La DH**, 29/04/18 *Un dictionnaire bilingue Français-Langue des signes en développement*  
<https://terranostra.unamur.be/sevrex/revue-de-presse/revue-de-presse-2018/avril-2018/Revue%20de%20presse%2030-04-2018.pdf/>
- **La Meuse**, 27/04/18 *Dico français-langue des signes*  
<https://terranostra.unamur.be/sevrex/revue-de-presse/revue-de-presse-2018/avril-2018/Revue%20de%20presse%2030-04-2018.pdf/>
- **L'Avenir**, 27/04/18 *Un dico français-langue des signes*  
<https://terranostra.unamur.be/sevrex/revue-de-presse/revue-de-presse-2018/avril-2018/Revue%20de%20presse%2027-04-2018.pdf/>
- **Nouvelles UNamur**, 21/12/2017, *Programme EOS : L'Excellence de la recherche à l'UNamur récompensée*  
<https://nouvelles.unamur.be/upnews.2017-12-21.0677914803/view>
- **L'Avenir.net**, 9/10/13 «Devovx4Kids» à l'Université de Namur: les jeunes initiés à l'informatique le 12 octobre  
[http://m.lavenir.net/cnt/dmf20131009\\_00372563](http://m.lavenir.net/cnt/dmf20131009_00372563)
- **RTBF le JT de 13h**, 13/10/13 *Devovx 4 kids*  
[http://www.rtbf.be/video/detail\\_jt-13h?id=1861028#](http://www.rtbf.be/video/detail_jt-13h?id=1861028#)
- **lameuse.be**, 9/10/13 *Première édition wallonne de «Devovx4Kids» le 12 octobre à Namur*  
<http://www.lameuse.be/830564/article/regions/namur/actualite/2013-10-09/premiere-edition-wallonne-de-devovx4kids-le-12-octobre-a-namur>

#### MAIN ACRONYMS

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<b>ACM</b>	Association for Computing Machinery
<b>ANR</b>	Agence Nationale de la Recherche (France)
<b>ARC</b>	Actions de Recherche Concertées
<b>ARES</b>	Académie de Recherche et d'Enseignement Supérieur (FWB)
<b>ASE</b>	IEEE/ACM International Conference on Automated Software Engineering
<b>BENELEARN</b>	Belgian Dutch Conference on Machine Learning
<b>BNAIC</b>	Benelux Conference on Artificial Intelligence
<b>BX</b>	International Workshop on Bidirectional Transformations
<b>CAISE</b>	International Conference on Advanced Information Systems Engineering
<b>CSMR</b>	European Conference on Software Maintenance and Reengineering
<b>EBDT</b>	International Conference on Extending Database Technology
<b>ECSA</b>	European Conference on Software Architecture
<b>EMSE</b>	Empirical Software Engineering (Springer)
<b>EOS</b>	Excellence of Science
<b>ER</b>	International Conference on Conceptual Modeling
<b>ESEC/FSE</b>	ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering

<b>EVOL</b>	ERCIM Workshop on Software Evolution
<b>FHIES</b>	International Symposium on the Foundations of Health Information Engineering and Systems
<b>F.R.S.-FNRS</b>	Fonds de la recherche scientifique (Research Foundation )
<b>FWB</b>	Fédération Wallonie-Bruxelles
<b>FWO</b>	Fonds voor Wetenschappelijk Onderzoek (Research Foundation in Flanders)
<b>GTTSE</b>	(Grand Timely Topics   Generative and Transformational Techniques) in Software Engineering
<b>ICDE</b>	International Conference on Data Engineering
<b>ICDT</b>	International Conference on Database Theory
<b>ICMT</b>	International Conference on Model Transformation
<b>ICPC</b>	IEEE/ACM International Conference on Program Comprehension
<b>ICSE</b>	IEEE/ACM International Conference on Software Engineering
<b>ICSM</b>	IEEE International Conference on Software Maintenance and Evolution (previously ICSM)
<b>IWPSE</b>	International Workshop on Principles of Software Evolution
<b>IEEE</b>	Institute of Electrical and Electronics Engineers
<b>IJCNN</b>	International Joint Conference on Neural Networks
<b>JSS</b>	Journal on Systems and Software
<b>MDSM</b>	International Workshop on Model-Driven Software Migration
<b>MOMPES</b>	International Workshop on Model-based Methodologies for Pervasive and Embedded Software
<b>MSR</b>	International Conference on Mining Software Repositories
<b>NWO</b>	Nederlandse Organisatie voor Wetenschappelijk Onderzoek (Dutch Research Council)
<b>PCODA</b>	International Workshop on Program Comprehension through Dynamic Analysis
<b>QRS</b>	IEEE International Conference on Software Security and Reliability
<b>RW</b>	Région Wallonne
<b>SANER</b>	IEEE International Conference on Software Analysis, Evolution and Reengineering (previously WCRE)
<b>SCAM</b>	International Working Conference on Source Code Analysis & Manipulation
<b>SCP</b>	Science of Computer Programming (Elsevier)
<b>SLE</b>	International Conference on Software Language Engineering
<b>SNSF</b>	Swiss National Science Foundation
<b>SoSyM</b>	Software and Systems Modeling (Springer)
<b>VaMoS</b>	International Workshop on Variability Modelling of Software-intensive Systems
<b>VISSOFT</b>	IEEE Working Conference on Software Visualization
<b>VLDB</b>	International Conference on Very Large Data Bases
<b>WCRE</b>	Working Conference on Reverse Engineering
<b>WETICE</b>	IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises

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