

Curriculum vitae

Claudia-Lavinia IGNAT

Romanian nationality

Married, 3 children

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Professional address

COAST Team

Inria Nancy - Grand-Est

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France

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Current position

Oct. 2007 - present : Research Scientist (CR1) Inria, Coast Team (Inria Nancy-Grand Est)

Previous positions

Oct. 2006 - Sept. 2007 : Postdoctoral researcher, ECOO Team (LORIA-Inria Nancy-Grand Est)

Oct. 2000 - Sept. 2006 : Research and teaching assistant, PhD student
Member of GlobIS, Institut für Informationssysteme, ETH Zurich

Education

2006 : **PhD in Computer Science**, ETH Zurich

Title of the thesis : Maintaining Consistency in Collaboration over Hierarchical Documents

Supervisor : Prof. Dr. Moira Norrie, ETH Zurich

Defended on July 31, 2006

2000 : Engineer diploma, Technical University of Cluj-Napoca

Research interests

Operational Transformation

CRDT (Conflict-free Replicated Data Types)

Collaborative Editing

Computer-Supported Cooperative Work (CSCW)

Optimistic Replication

Distributed Systems

Trust-based security

User studies

List of publications

Synthesis of publications :

- 2 theses (PhD thesis + master thesis)
- 3 books published in Romanian
- 7 articles in international journals
- 39 articles in international conferences
- 13 articles in international workshops
- 5 editorial publications
- 2 posters et demos
- 6 research reports

The majority of these publications are available on my website <https://members.loria.fr/Clgnat/>

Theses

- [1] Claudia-Lavinia Ignat. Implementation of a framework supporting web-based information modeling. Diploma thesis, ETH Zurich, Juin 2000.
- [2] Claudia-Lavinia Ignat. *Maintaining Consistency in Collaboration over Hierarchical Documents*. Phd thesis, ETH Zurich, Juillet 2006.

Books

- [3] Iosif Ignat et Claudia-Lavinia Ignat. *Computer programming. Algorithms Description and the Fundamentals of C/C++ (rédigé en Roumain)*. Editura Albastra, Cluj-Napoca, Romania, 2002.
- [4] Iosif Ignat et Claudia-Lavinia Ignat. *Data Structures and Algorithms - guide to lab sessions (rédigé en Roumain)*. U.T. Pres, Cluj-Napoca, Romania, 2001.
- [5] Iosif Ignat et Claudia-Lavinia Ignat. *Data Structures and Algorithms (rédigé en Roumain)*. Editura Albastra, 2007.

International journals

- [6] Claudia-Lavinia Ignat et Moira C. Norrie. Customisable collaborative editing supporting the work processes of organisations. *Computers in Industry*, 57(8-9) :758–767, Décembre 2006.
- [7] Claudia-Lavinia Ignat et Moira C. Norrie. Multi-level editing of hierarchical documents. *Journal of Computer Supported Cooperative Work*, 17(5-6) :423–468, Décembre 2008.
- [8] Hien Thi Thu Truong, Claudia-Lavinia Ignat, et Pascal Molli. A contract-extended push-pull-clone model for multi-synchronous collaboration. *Journal of Cooperative Information Systems*, 21(03) :221–262, Septembre 2012.
- [9] Quang Dang et Claudia-Lavinia Ignat. Quality assessment of wikipedia articles : a deep learning approach. *SIGWEB Newsletter*, 2016(Autumn) :5 :1–5 :6, 2016.
- [10] Claudia-Lavinia Ignat, Luc André, et Gérald Oster. Enhancing rich content wikis with real-time collaboration. *Concurrency and Computation : Practice and Experience*, Mars 2017.
- [11] Hoai Le Nguyen et Claudia-Lavinia Ignat. An analysis of merge conflicts and resolutions in git-based open source projects. *Computer Supported Cooperative Work*, 27(3-6) :741–765, 2018.
- [12] Claudia-Lavinia Ignat, Quang-Vinh Dang, et Valerie L. Shalin. The influence of trust score on cooperative behavior. *ACM Trans. Internet Technol.*, 19(4) :46 :1–46 :22, Septembre 2019.

International conferences

- [13] Claudia-Lavinia Ignat et Moira C. Norrie. Customizable collaborative editor relying on treeopt algorithm. Dans *Proceedings of the 8th European Conference on Computer-supported Cooperative Work (ECSCW 2003)*, pages 315–334, Helsinki, Finland, 2003.

- [14] Claudia-Lavinia Ignat et Moira C. Norrie. Codoc : Multi-mode collaboration over documents. Dans *Proceedings of the 16th International Conference on Advanced Information Systems Engineering (CAiSE 2004)*, pages 580–594, Riga, Latvia, 2004. Springer.
- [15] Claudia-Lavinia Ignat et Moira C. Norrie. Extending real-time editing systems with asynchronous communication. Dans *Proceedings of the 8th International Conference on CSCW in Design (CSCWD 2004)*, pages 528–533, Xiamen, P.R.China, Mai 2004. IEEE Press.
- [16] Claudia-Lavinia Ignat et Moira C. Norrie. Grouping in collaborative graphical editors. Dans *Proceedings of the International Conference on Computer Supported Cooperative Work (CSCW 2004)*, pages 447–456, Chicago, Illinois, USA, 2004. ACM Press.
- [17] Claudia-Lavinia Ignat et Moira C. Norrie. Operation-based merging of hierarchical documents. Dans *Proceedings of the CAiSE'05 Forum, 17th International Conference on Advanced Information Systems Engineering*, pages 101–106, Porto, Portugal, Juin 2005.
- [18] Claudia-Lavinia Ignat et Moira C. Norrie. Draw-together : Graphical editor for collaborative drawing. Dans *Proceedings of the International Conference on Computer Supported Cooperative Work (CSCW 2006)*, pages 269–278, Banff, Alberta, Canada, Novembre 2006.
- [19] Claudia-Lavinia Ignat et Moira C. Norrie. Flexible collaboration over xml documents. Dans *Proceedings of the International Conference on Cooperative Design, Visualization and Engineering (CDVE 2006)*, pages 267–274, Mallorca, Spain, Septembre 2006.
- [20] Claudia-Lavinia Ignat et Moira C. Norrie. Flexible definition and resolution of conflicts through multi-level editing. Dans *Proceedings of the 2nd International Conference on Collaborative Computing : Networking, Applications and Worksharing (CollaborateCom 2006)*, page 10, Georgia, Atlanta, USA, Novembre 2006.
- [21] Claudia-Lavinia Ignat et Moira C. Norrie. Supporting customised collaboration over shared document repositories. Dans *Proceedings of the 18th International Conference on Advanced Information Systems Engineering (CAiSE 2006)*, pages 190–204, Luxembourg, Grand Duché de Luxembourg, Juin 2006.
- [22] Stavroula Papadopoulou, Claudia-Lavinia Ignat, Gérald Oster, et Moira C. Norrie. Increasing awareness in collaborative authoring through edit profiling. Dans *Proceedings of the 2nd International Conference on Collaborative Computing : Networking, Applications and Worksharing (CollaborateCom 2006)*, page 10, Georgia, Atlanta, USA, Novembre 2006.
- [23] Claudia-Lavinia Ignat et Gérald Oster. Flexible Reconciliation of XML Documents in Asynchronous Editing. Dans *Proceedings of the International Conference on Enterprise Information Systems (ICEIS 2007)*, pages 359–366, Funchal, Madeira, Portugal, Juin 2007.
- [24] Claudia-Lavinia Ignat, Gérald Oster, Pascal Molli, Michelle Cart, Jean Ferrié, Anne-Marie Kermarrec, Pierre Sutra, Marc Shapiro, Lamia Benmouffok, Jean-Michel Busca, et Rachid Guerraoui. A Comparison of Optimistic Approaches to Collaborative Editing of Wiki Pages. Dans *Proceedings of the International Conference on Collaborative Computing : Networking, Applications and Worksharing (CollaborateCom 2007)*, page 10, White Plains, New York, USA, Novembre 2007. IEEE Computer Society.
- [25] Hala Skaf-Molli, Claudia-Lavinia Ignat, Charbel Rahhal, et Pascal Molli. New work modes for collaborative writing. Dans *International Conference on Enterprise Information Systems and Web Technologies (EISWT 2007)*, Orlando, Florida, USA, Juillet 2007.
- [26] Claudia-Lavinia Ignat. Annotation of Concurrent Changes in Collaborative Software Development. Dans *Proceedings of the IEEE International Conference on Intelligent Computer Communication and Processing (ICCP 2008)*, Cluj-Napoca, Romania, Août 2008.
- [27] Claudia-Lavinia Ignat et Gérald Oster. Awareness of Concurrent Changes in Distributed Software Development. Dans *Proceedings of the International Conference on Cooperative Information Systems (CoopIS 2008)*, Monterrey, Mexico, Novembre 2008.
- [28] Claudia-Lavinia Ignat et Gérald Oster. Peer-to-peer Collaboration over XML Documents. Dans *Proceedings of the 5th International Conference on Cooperative Design, Visualization and Engineering (CDVE 2008)*, pages 66–73, Mallorca, Spain, Septembre 2008. Springer.

- [29] Claudia-Lavinia Ignat, Stavroula Papadopoulou, Gérald Oster, et Moira C. Norrie. Providing Awareness in Multi-synchronous Collaboration Without Compromising Privacy. Dans *Proceedings of the ACM Conference on Computer-Supported Cooperative Work (CSCW 2008)*, San Diego, California, USA, Novembre 2008. ACM Press.
- [30] Stavroula Papadopoulou, Claudia-Lavinia Ignat, Gérald Oster, et Moira C. Norrie. Intra/Inter-document Change Awareness for Co-authoring of Web Sites. Dans *Proceedings of the International Conference on Web Information Systems Engineering (WISE 2008)*, pages 90–105, Auckland, New Zealand, Septembre 2008. Springer.
- [31] Claudia-Lavinia Ignat, Gérald Oster, et Pascal Molli. DooSo6 : Easy collaboration over shared projects. Dans *Proceedings of the 6th International Conference on Cooperative Design, Visualization and Engineering (CDVE 2009)*, Luxembourg, Luxembourg, Septembre 2009.
- [32] Mehdi Ahmed-Nacer, Claudia-Lavinia Ignat, Gérald Oster, Hyun-Gul Roh, et Pascal Urso. Evaluating CRDTs for real-time document editing. Dans *Proceedings of the 2011 ACM Symposium on Document Engineering (DocEng 2011)*, pages 103–112, Mountain View, CA, USA, Septembre 2011. Nominated for best paper award.
- [33] Hien Thi Thu Truong et Claudia-Lavinia Ignat. Log Auditing for Trust Assessment in Peer-to-Peer Collaboration. Dans *Proceedings of the 10th International Symposium on Parallel and Distributed Computing (ISPDC 2011)*, pages 207–214, Cluj-Napoca, Romania, Juillet 2011.
- [34] Hien Thi Thu Truong, Claudia-Lavinia Ignat, Mohamed-Rafik Bouguelia, et Pascal Molli. A contract-extended push-pull-clone model. Dans *Proceedings of the International Conference on Collaborative Computing : Networking, Applications and Worksharing (CollaborateCom 2011)*, pages 211–220, Orlando, Florida, USA, Octobre 2011. Best paper award.
- [35] Mehdi Ahmed-Nacer, Pascal Urso, Claudia-Lavinia Ignat, et Gérald Oster. Evaluation de l’occupation mémoire des CRDTs pour l’édition collaborative temps-réel mobile. Dans *Proceedings of 8èmes journées francophones Mobilité et Ubiquité (Ubimob 2012)*, Anglet, France, Juin 2012.
- [36] Hien Thi Thu Truong, Claudia-Lavinia Ignat, et Pascal Molli. Authenticating Operation-based History in Collaborative Systems. Dans *Proceedings of the ACM International Conference on Supporting Group Work (Group 2012)*, pages 131–140, Sanibel Island, Florida, USA, Octobre 2012. ACM.
- [37] Luc André, Stéphane Martin, Gérald Oster, et Claudia-Lavinia Ignat. Supporting Adaptable Granularity of Changes for Massive-scale Collaborative Editing. Dans *Proceedings of the International Conference on Collaborative Computing : Networking, Applications and Worksharing (CollaborateCom 2013)*, pages 50–59, Austin, Texas, USA, Octobre 2013.
- [38] Claudia-Lavinia Ignat, Gérald Oster, Meagan Newman, Valerie Shalin, et François Charoy. Studying the effect of delay on group performance in collaborative editing. Dans *Proceedings of International Conference on Cooperative Design, Visualization and Engineering (CDVE 2014)*, pages 191–198, Seattle, Washington, USA, Septembre 2014.
- [39] Claudia-Lavinia Ignat, Gérald Oster, Olivia Fox, Valerie L. Shalin, et François Charoy. How Do User Groups Cope with Delay in Real-Time Collaborative Note Taking. Dans *Proceedings of the European Conference on Computer Supported Cooperative Work - ECSCW 2015*, pages 223–242, Oslo, Norway, September 2015.
- [40] Claudia-Lavinia Ignat Weihai Yu, Luc André. A CRDT Supporting Selective Undo for Collaborative Text Editing. Dans *Proceedings of the 10th International Federated Conference on Distributed Computing Techniques - DisCoTec 2015, Distributed Applications and Interoperable Systems - DAIS*, pages 193–206, Grenoble, France, June 2015.
- [41] Quang Vinh Dang et Claudia-Lavinia Ignat. Computational Trust Model for Repeated Trust-Games. Dans *Proceedings of the 15th IEEE International Conference on Trust, Security and Privacy in Computing and Communications - TrustCom 2016*, Tianjin, China, August 2016.
- [42] Quang Vinh Dang et Claudia-Lavinia Ignat. Measuring Quality of Collaboratively Edited Documents : the case of Wikipedia. Dans *Proceedings of the 2nd IEEE International Conference on Collaboration and Internet Computing - CIC 2016*, Pittsburgh, USA, November 2016.

- [43] Quang Vinh Dang et Claudia-Lavinia Ignat. Quality assessment of wikipedia articles without feature engineering. Dans *Proceedings of the 16th ACM/IEEE-CS on Joint Conference on Digital Libraries, JCDL 2016*, pages 27–30, Newark, NJ, USA, June 2016.
- [44] Quang-Vinh Dang et Claudia-Lavinia Ignat. dTrust : a simple deep learning approach for social recommendation. Dans *The 3rd IEEE International Conference on Collaboration and Internet Computing (CIC-17)*, San Jose, United States, Octobre 2017.
- [45] Quang-Vinh Dang et Claudia-Lavinia Ignat. An end-to-end learning solution for assessing the quality of wikipedia articles. Dans *Proceedings of the 13th International Symposium on Open Collaboration, OpenSym 2017, Galway, Ireland, August 23-25, 2017*, pages 4 :1–4 :10, 2017.
- [46] Weihai Yu, Gérald Oster, et Claudia-Lavinia Ignat. Handling Disturbance and Awareness of Concurrent Updates in a Collaborative Editor. Dans Yuhua Luo, editor, *CDVE 2017 - 14th International Conference on Cooperative Design, Visualization, and Engineering*, volume 10451 de *LNCS - Lecture Notes in Computer Science*, Mallorca, Spain, Septembre 2017. Springer.
- [47] Quang-Vinh Dang et Claudia-Lavinia Ignat. Link-Sign Prediction in Dynamic Signed Directed Networks. Dans *CIC 2018 - 4th IEEE International Conference on Collaboration and Internet Computing*, Philadelphia, United States, Octobre 2018.
- [48] Hoang-Long Nguyen, Jean-Philippe Eisenbarth, Claudia-Lavinia Ignat, et Olivier Perrin. Blockchain-Based Auditing of Transparent Log Servers. Dans *DBSec 2018 - 32nd Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy*, Proceeding of Data and Applications Security and Privacy XXXII - 32nd Annual IFIP WG 11.3 Conference, pages 21–37, Bergamo, Italy, Juillet 2018.
- [49] Weihai Yu, Victorien Elvinger, et Claudia-Lavinia Ignat. A Generic Undo Support for State-Based CRDTs. Dans *The International Conference On Principles Of Distributed Systems (OPODIS 2019)*, Neuchâtel, Switzerland, Décembre 2019.
- [50] Hoai Le Nguyen et Claudia-Lavinia Ignat. Time-position characterization of conflicts : a case study of collaborative editing. Dans *The 26th International Conference on Collaboration Technologies and Social Computing (CollabTech 2020)*, Tartu, Estonia, 2020.
- [51] Weihai Yu et Claudia-Lavinia Ignat. Conflict-Free Replicated Relations for Multi-Synchronous Database Management at Edge. Dans *The IEEE International Conference on Smart Data Services (SMDS 2020)*, Beijing, China, Octobre 2020.

Editorials

- [52] Agustina, Ning Gu, Claudia-Lavinia Ignat, Pascal Molli, Haifeng Shen, David Sun, et Chengzheng Sun. The twelfth international workshop on collaborative editing systems. Dans *CSCW '12 Computer Supported Cooperative Work, Seattle, WA, USA, February 11-15, 2012 - Companion Volume*, pages 25–26, 2012.
- [53] Agustina, Ning Gu, Claudia-Lavinia Ignat, Michael MacFadden, Haifeng Shen, David Sun, et Chengzheng Sun. The thirteenth international workshop on collaborative editing systems. Dans *Computer Supported Cooperative Work, CSCW 2013, San Antonio, TX, USA, February 23-27, 2013, Companion Volume*, pages 299–300, 2013.
- [54] Michael MacFadden, Agustina, Ning Gu, Claudia-Lavinia Ignat, Haifeng Shen, David Sun, et Chengzheng Sun. The fourteenth international workshop on collaborative editing systems. Dans *Computer Supported Cooperative Work, CSCW '14, Baltimore, MD, USA, February 15-19, 2014, Companion Volume*, pages 331–334, 2014.
- [55] Michael S. MacFadden, Agustina Ng, Claudia-Lavinia Ignat, Ning Gu, et Chengzheng Sun. The fifteenth international workshop on collaborative editing systems. Dans *Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing, CSCW 2017, Portland, OR, USA, February 25 - March 1, 2017, Companion Volume*, pages 351–354, 2017.
- [56] Claudia-Lavinia Ignat, Pernille Bjørn, et Prasun Dewan. Special Issue : ECSCW 2018 : The 16th European Conference on Computer-Supported Cooperative Work, The International Venue on

Practice-centred Computing and the Design of Cooperation Technologies. Dans *ECSCW 2018 - 16th European Conference on Computer-Supported Cooperative Work*, volume 27, pages 291–1020, Nancy, France, Décembre 2018. Springer Verlag.

International workshops

- [57] Claudia-Lavinia Ignat et Moira C. Norrie. Framework supporting rapid information modelling. *Eighth Doctoral Consortium in Conjunction, CAiSE 2001*, Juin 2001.
- [58] Claudia-Lavinia Ignat et Moira C. Norrie. Tree-based model algorithm for maintaining consistency in real-time collaborative editing systems. *Fourth International Workshop on Collaborative Editing, CSCW 2002, IEEE Distributed Systems online*, Novembre 2002.
- [59] Claudia-Lavinia Ignat et Moira C. Norrie. Grouping/ungrouping in graphical collaborative editing systems. *Fifth International Workshop on Collaborative Editing, ECSCW 2003, IEEE Distributed Systems online*, Septembre 2003.
- [60] Claudia-Lavinia Ignat et Moira C. Norrie. Operation-based versus state-based merging in asynchronous graphical collaborative editing. *Sixth International Workshop on Collaborative Editing, CSCW 2004, IEEE Distributed Systems online*, Novembre 2004.
- [61] Claudia-Lavinia Ignat et Moira C. Norrie. Flexible merging of hierarchical documents. *Seventh International Workshop on Collaborative Editing, GROUP 2005, IEEE Distributed Systems online*, Novembre 2005.
- [62] Claudia-Lavinia Ignat, Moira C. Norrie, et Gérald Oster. Handling conflicts through multi-level editing in peer-to-peer environments. *Eighth International Workshop on Collaborative Editing, CSCW 2006, IEEE Distributed Systems online*, Novembre 2006.
- [63] Claudia-Lavinia Ignat, Gérald Oster, Pascal Molli, et Hala Skaf-Molli. A Collaborative Writing Mode for Avoiding Blind Modifications. *Ninth International Workshop on Collaborative Editing, GROUP 2007, IEEE Distributed Systems online*, Novembre 2007.
- [64] Stavroula Papadopoulou, Claudia-Lavinia Ignat, et Moira C. Norrie. Awareness Model to Overview Modifications in Collaborative Graphical Authoring Tools. *Ninth International Workshop on Collaborative Editing, GROUP 2007, IEEE Distributed Systems online*, Novembre 2007.
- [65] Hien Thi Thu Truong, Mohamed-Rafik Bouguelia, Claudia-Lavinia Ignat, et Pascal Molli. Collaborative Editing with Contract over Friend-to-Friend Networks. *Atelier Protection de la Vie Privée / Géolocalisation et Vie Privée, APVP2011*, page 6, Juin 2011.
- [66] Luc André, Claudia-Lavinia Ignat, et Gérald Oster. Collaboration over Wiki Content. *The Twelfth International Workshop on Collaborative Editing Systems, CSCW 2012, IEEE Distributed Systems online*, page 21, Février 2012.
- [67] Hien Thi Thu Truong, Claudia-Lavinia Ignat, et Pascal Molli. Securing Logs in Operation-based Collaborative Editing. *The Twelfth International Workshop on Collaborative Editing Systems, CSCW 2012, IEEE Distributed Systems online*, page 6, Février 2012.
- [68] Quang Vinh Dang et Claudia-Lavinia Ignat. Performance of real-time collaborative editors at large scale : user perspective. *The first IFIP Internet of People Workshop (IoP-W 2016), Networking 2016*, Mai 2016.
- [69] Hoai Le Nguyen et Claudia-Lavinia Ignat. Parallelism and conflicting changes in Git version control systems. Dans *IWCES'17 - The Fifteenth International Workshop on Collaborative Editing Systems*, Portland, Oregon, United States, Février 2017.

Posters et démos

- [70] Matthieu Nicolas, Victorien Elvinger, Gérald Oster, Claudia-Lavinia Ignat, et François Charoy. MUTE : A Peer-to-Peer Web-based Real-time Collaborative Editor. Dans *ECSCW 2017 - 15th European Conference on Computer-Supported Cooperative Work*, volume 1 de *Proceedings of 15th European Conference on Computer-Supported Cooperative Work - Panels, Posters and Demos*, pages 1–4, Sheffield, United Kingdom, Août 2017. EUSSET.

- [71] Hoang-Long Nguyen, Claudia-Lavinia Ignat, et Olivier Perrin. Trusternity : Auditing Transparent Log Server with Blockchain. Dans *Companion of the The Web Conference 2018*, pages 79–80, Lyon, France, Avril 2018.

Research reports

- [72] Claudia-Lavinia Ignat and Gérald Oster and Pascal Molli and Michèle Cart and Jean Ferrié et Anne-Marie Kermarrec and Pierre Sutra and Marc Shapiro and Lamia Benmouffok and Jean-Michel Busca and Rachid Guerraoui. A Comparison of Optimistic Approaches to Collaborative Editing of Wiki Pages. Research Report RR-6278, Inria Nancy-Grand Est, Septembre 2007.
- [73] Claudia-Lavinia Ignat, Gérald Oster, Pascal Molli, et Hala Skaf-Molli. Gasper : A Collaborative Writing Mode for Avoiding Blind Modifications. Research Report RR-6204, Inria Nancy-Grand Est, Mai 2007.
- [74] Hien Thi Thu Truong et Claudia-Lavinia Ignat. A Log Auditing Approach for Trust Management in Peer-to-Peer Collaboration. Research Report RR-7472, Inria Nancy-Grand Est, Décembre 2010.
- [75] Hyun-Gul Roh et Claudia-Lavinia Ignat. Rapid and Round-free Multi-pair Asynchronous Push-Pull Aggregation. Research Report RR-8044, Inria Nancy-Grand Est, Août 2012.
- [76] Claudia-Lavinia Ignat, Gérald Oster, Meagan Newman, Valerie Shalin, et François Charoy. Measurement of Remote Response Delay in Multi-Synchronous Collaborative Editing. Research Report RR-8419, Inria Nancy-Grand Est, Décembre 2013.
- [77] Afshin Moin et Claudia-Lavinia Ignat. Hybrid Weighting Schemes For Collaborative Filtering. Research report, Inria Nancy-Grand Est, Février 2014.

Research projects

- Coordinator of the Inria partner in the project Wiki 3.0 (2009-2012), financed by the Minister of Economy in France
- Coordinator of the Inria partner in the project TVPaint (2016-2020) financed by Région Lorraine
- Coordinator of the Inria partner in the Deeptech project financed by BPI and coordinated by Fair&Smart (2020-2023)
- Coordinator of Inria associated team USCoast (2013-2015)
- Participant in the projects OpenPaaS : :NG (2015-2019) financed by BPI France, ANR STREAMS (Solutions for Peer-to-peer Real-time Social Web) (2010-2014), ANR ConcoRDant (CRDTs for consistency without concurrency control in Cloud and Peer-to-Peer systems) (2010-2014), RNTL XWiki Concerto (2006-2009), ARC RECALL (Optimistic Replication for P2P massive collaborative editing) (2006-2007)

Programme committee and editorial board

- Associate editor *The Journal of Computer Supported Cooperative Work (JCSCW)* since 2011
- Member of the Editorial Board for the journal track of ECSCW since 2019
- Programme co-chair of ECSCW (The European Conference on Computer-Supported Cooperative Work : The International venue on Practice-centred computing and the Design of cooperation technologies) in 2018

Programme committee member :

- ACM CHI Conference on Human Factors in Computing Systems (CHI 2021)
- ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) in 2015 and 2016
- European Conference on Computer-Supported Cooperative Work : The International venue on Practice-centred computing and the Design of cooperation technologies (ECSCW) in 2018 (PC Co-Chair)
- International Conference on Supporting Group Work (GROUP) in 2009, 2010 et 2012
- ACM SIGMOD/PODS, SIGMOD Demo, in 2014
- International Conference on Cooperative Design, Visualization and Engineering (CDVE) since 2009
- International Conference on Collaboration Technologies and Social Computing (CollabTech) since 2019
- International Conference on Collaboration and Technology (CRIWG) in 2018
- IFIP Internet of People Workshop (IoP-W), associated with Networking 2016
- IEEE International Conferences on e-Business Engineering (ICEBE) from 2009 to 2016
- IEEE International Conference on Advanced Information Networking and Applications (AINA) in 2012

Reviewing activities

- Regular reviewer for the journals : ACM Transactions on Computer-Human Interaction (TOCHI), IEEE Transactions on Parallel and Distributed Systems (TPDS), Journal of Computer Supported Cooperative Work (JCSCW), ACM Transactions on Interactive Intelligent Systems (TiiS), Theoretical Computer Science (TCS), ACM Transactions on Internet Technologies (TOIT), Concurrency and Computation : Practice and Experience, Future Generation Computer Systems (FGCS), Information Sciences, Journal of Cooperative Information Systems, Computers in Industry , IEEE International Parallel and Distributed Processing Symposium (IPDPS) Journal
- Regular reviewer for the conferences : ACM Conference on Human Factors in Computing Systems (CHI), ACM Computer Supported Cooperative Work (CSCW), European Computer Supported Co-operative Work (ECSCW), ACM GROUP, Symposium on Collaborative Technologies and Systems (CTS), IEEE CollaborateCom, Cooperative Design, Visualization and Engineering

(CDVE), ACM User Interface Software and Technology (UIST), Bases de Données Avancées (BDA)

Keynote, Invited presentations

- *Keynote : From groupware to large-scale trustworthy distributed collaborative systems*, International Conference on Collaboration and Technology (CRIWG), Costa de Caparica, Portugal, September 2018
- *Large-scale trustworthy distributed collaborative systems*, team MiMove Inria, November 2019
- *Towards a trustworthy sharing of medical data*, Journées Scientifiques Fédération Charles Hermite, Nancy, May 2017
- *Maintaining Consistency in Collaboration over Hierarchical Documents*, LIP6, Paris, Novembre 2006
- *Web-scale Trust-based Collaboration*, Journées Scientifiques Inria, June 2016
- *Replicated Data Consistency*, SOAMED Graduate School, Humboldt-Universität zu Berlin, May 2016
- *Large-scale trust-based collaboration*, Department of Psychology, Wright State University, June 2016
- *Large-scale trust-based collaboration*, Kno.e.sis, Ohio Center of Excellence in Knowledge-enabled Computing, Wright State University, July 2016

Academic events organisation

Conference organisation

- General co-chair of ECSCW 2018 conference and co-organiser of this conference in Nancy, June 2018 (120 participants)
- Co-chair of Workshops et Masterclasses at ECSCW 2021
- Member of the local organisation of the 13th Conference on Advanced Information Systems Engineering, CAiSE'01, Interlaken, Suisse, June 2001.

Organisation of workshops, special sessions and seminars

- Organiser of "Workshop on Social science insights for large scale and mobile collaboration/networks" at LORIA, Nancy, in 2014, 2015 and 2017
- Member of organisation committee of "International Workshop on Collaborative Editing Systems" which is organised almost every year in association with CSCW, ECSCW ou GROUP : from 2003 to 2008, from 2011 to 2013 and in 2017. I was workshop chair in 2003 and 2007.
- Co-organiser of "Special Session on Computer Supported Collaborative Editing" in the context of International Conference on Enterprise Information Systems (ICEIS) in 2007
- Member of organisation committee of "International Workshop on Social Computing, Network, and Services (SocialComNet)" in the context of FutureTech from 2011 to 2013
- Member of organisation committee of Security Seminar at LORIA since 2016
- Member of the organisation committee of the *Inter-Disciplinary Summer School, Information Environments : Analysis and Design*, Zurich, Switzerland, August, 2002.
- Chair of different sessions of the following conferences : International Conference on Cooperative Design, Visualization and Engineering (CDVE) en 2006, 2008 et 2014, International Symposium on Parallel and Distributed Computing (ISPD) en 2011, IEEE International Conference on Intelligent Computer Communication and Processing (ICCP) en 2008, International Conference on Web Information Systems Engineering (WISE) en 2007 et International Conference on CSCW in Design (CSCWD) en 2004

Service to community

At international level

- Member of the Steering committee of European Society for Socially Embedded Technologies (EUSSET) in the period 2017-2019

At national level

- Member of the Evaluation Commission at Inria since December 2018.
- Member of COST-GTRI committee since 2013
- Member of the Inria CAP Chercheurs commission in the period 2016-2019
- Member of recruitment juries for researchers CRCN and ISFP at Inria Nancy-Grand Est in 2014, 2015, 2017, 2018, 2019 et 2020, at Inria Saclay in 2019 and at Inria Paris in 2020. Member of recruitment jury for CRCN and ISFP Inria National in 2019 and 2020. Member of admission jury for CRCN Inria in 2019.
- Examiner of a PhD defense jury at Université de Technologie de Troyes in 2015

At local level

- Vice-head of team Coast since 2010
- Interim team leader of Inria SCORE/Coast in the periods January-August 2011 and March-August 2019
- Delegate of European affairs for Inria Nancy-Grand Est from 2012 to 2019. I was mainly responsible for the scientific aspects regarding the European projects submissions for Inria Nancy-Grand Est such as identification of the research teams concerned by the different calls and information days, dissemination of information to researchers, ensuring contact between the researchers and Inria european partnership direction, organisation of information sessions for researchers, participation to information days, coordination of and participation to working groups.
- Delegate of International Relations for Inria Nancy-Grand Est from 2013 to 2019. I was mainly responsible for the scientific aspects regarding the international projects submissions for Inria Nancy-Grand Est, the Inria associated teams, identification of the research teams concerned by the different calls, dissemination of information to researchers, ensuring contact between the researchers and Inria international partnership direction, organisation of information sessions for researchers, supervision of the International PhD student, organisation of different events for the integration of foreign students (Social Games activity, How to fill in the tax declaration, Research@Inria, It's a piece of cake challenge, etc.)
- Member of the Inria Nancy-Grand Est COMIPERS committee (responsible with PhD and postdoc hiring as well as reserach leaves at Inria) since 2009
- Member of the Inria Nancy – Grand Est committee for health, safety and working conditions (CLHSCT) in the period 2013-2015
- Member of the committee of Inria Nancy-Grand Est Center in the period 2008-2012. This committee has as objective the facilitation of communication and information within Inria Nancy-Grand Est center. The committee proposes and discusses various aspects related to the professional life of Inria Nancy-Grand Est center.
- Responsible with the AGOS kindergarden activity for Inria Nancy - Grand Est since 2013

Dissemination of scientific information

- Demo of the collaborative editor MUTE in the context of the meeting between Inria and the industry ("Rencontre Inria-Industrie (RII) : Nouvelles technologies pour la protection des données et des systèmes numériques"), Nancy, Decembre 2016, the HCERES evaluation of LORIA in Nancy, Decembre 2016 and the ECSCW conference in Sheffield, August 2017
- Presentation of the collaborative editor MUTE and the research work of the team Coast on collaborative editing at "Le Village des Sciences" at LORIA in 2015

- Presentation of my research activity to first year students at Ecole de Mines in Nancy in 2016 and 2020
- Participation to the meeting AJE (Association Jeunesse Entreprise) for presenting the different activities of an Inria researcher
- Participation to the programme "Shadowing Days" organised by Inria in 2007 and 2009
- Interview on Interstices Inria about collaborative working tools "À propos des outils de travail collaboratif"
- Dissemination article : Claudia-Lavinia Ignat, CoDoc : Multi-mode Collaboration over Documents. Visionen, ETH Zurich, July, 2004.

Scientific awards

- 2020-2023 : Inria Research and Doctoral Supervision Bonus (PEDR) Inria (experienced researchers group)
- 2011 : Best paper award at CollaborateCom 2011
- 2000 : 4 months scholarship for doing a master thesis at ETH Zurich, Switzerland
- 1997-2000 : scholarship for excellent studies
- 1997 : scholarship for 3 months at Katholieke Hogeschool St.-Lieven, Gent, Belgium
- 1996 : First place at Mathematics Olympiad at Technical University of Cluj-Napoca, Romania and Special Award at Mathematics National Olympiad (Romania)
- 1994 : Third place at Tiberiu Popoviciu Mathematics Competition
- 1989 : First place at local Mathematics Olympiad in Cluj-Napoca, Romania

Mobility

- June - July 2016, invited researcher, Kno.e.sis (the Ohio Center of Excellence in Knowledge-enabled Computing), Wright State University, Ohio, USA
- 2006-2007, Postdoctoral researcher in team ECOO, LORIA - Inria Nancy Grand Est.
- 2000-2006, Research and teaching assistant, PhD at ETH Zurich, Suisse
- 2000 (4 months), Master thesis, ETH Zurich, Switzerland
- 1997, Research stage (3 months) at Katholieke Hogeschool St.-Lieven, Gent, Belgium.
- 1995-2000, Computer science studies, Technical University Cluj-Napoca, Romania

Student supervision

Synthesis

- 4 defended PhD theses, 2 current PhD theses,
- 4 postdocs,
- 5 engineers,
- 12 master students,
- 18 internship students.

PhD student supervision

- Alexandre Bourbeillon, *User trust in collaborative systems*, (November 2020 - October 2023), co-supervision with François Charoy
- Pierre-Antoine Rault, *Security mechanisms for collaborative systems without central authority*, (October 2020 - September 2023), co-supervision with Olivier Perrin
- Hoai Le Nguyen, *Study of conflicts in collaborative editing*, (September 2015 - December 2020), defended on January 2021, co-supervision with François Charoy
- Hoang Long Nguyen, *Blockchain based transparency system*, (November 2015 - March 2019), defended on December 2019, co-supervision with Olivier Perrin, currently co-fonder of d'Akachain (<https://akachain.io/>) in Hanoi, Vietnam, a startup on development of applications based on consortium blockchains.
- Quang Vinh Dang, *Trust assessment in large scale collaborative systems*, (October 2014 - December 2017), defended on January 2018, co-supervision with François Charoy, currently associate professor at Industrial University of Ho Chi Minh.
- Hien Truong Thi Thu, *A Contract-based and Trust-aware Collaboration Model*, (October 2009 - December 2012), defended on December 2012, co-supervision with Pascal Molli, currently researcher at NEC Laboratories Europe

Postdoc supervision

- Siavash Atarodi, *Effect of reputation in trust game* (March 2018 - February 2019)
- Afshin Moin, *Weighting schemes on collaborative filtering algorithms* (November 2012 - March 2014)
- Stéphane Martin, co-supervision with Gérald Oster in the context of Wiki3.0 et ANR STREAMS projects, *Real-time collaborative editing on strings and real-time collaborative graphical editing* (September 2012 - September 2013)
- Hyun-Gul Roh, *Benchmarking of replication mechanisms + dissemination solutions in peer-to-peer systems* (March 2011 - October 2012)

Engineer supervision

- Jean-Philippe Eisenbarth, *Security for a peer-to-peer collaboration infrastructure*, (October 2016 - March 2019), co-supervision with Gérald Oster
- Cédric Enclos, *TVPaint project* (April 2018 - December 2019)
- Matthieu Nicolas, *TVPaint projet* (September 2016 - June 2017), co-supervision with Gérald Oster
- Matthieu Nicolas, *MUTE collaborative editor* (July 2017 - September 2017), co-supervision with Gérald Oster
- Philippe Kalitine, *Peer-to-peer collaboration infrastructure* (May 2014 - September 2018), co-supervision with Gérald Oster and François Charoy
- Bogdan Flueraș, *Integration of real-time collaborative edition in Wiki 3.0 project* (February 2010 - April 2012)

Master student supervision

- Abdul Wahab, *Measuring user trust according to the quality of their contributions : the case of Wikipedia*, Master thesis M2 MFLS, Université de Lorraine, Inria Nancy-Grand Est, 2020
- Mounir Sadaoui, *Experimental design of large scale collaboration based on trust*, Master thesis, M2 Recherche, Université de Lorraine, Inria Nancy-Grand Est, 2014
- Mohamed-Rafik Bouguelia, *Trust-based collaboration in peer-to-peer environments*, Master thesis, M2 Recherche, Université Henri Poincaré - Nancy 1, Inria Nancy-Grand Est, 2011
- Ricardo Nunes Leal, *Study of concurrent and conflicting changes in decentralised version control systems*, Master thesis, M2 Recherche, Université Henri Poincaré - Nancy 1, 2009
- Daniela Niga et Radu Alexandu Manea, *Annotation of concurrent changes in version control systems*, Master thesis, Technical University of Cluj-Napoca, 2009
- Adriana Ispas, *Consistency maintenance over XML documents in asynchronous collaborative editing*, Master thesis, ETH Zurich, 2006
- Bogdan Berce, *Generic Collaborative Editing*, Master thesis, ETH Zurich, 2005
- Bogdan Dumitriu, *Asynchronous Collaborative Text Editing*, Master thesis, ETH Zurich, 2004
- Andrei A. Vancea, *Asynchronous Collaborative Graphical Editors*, Master thesis, ETH Zurich, 2004
- Csaszar Lorant Zeno, *Real-Time Collaborative Graphical Editor*, Master thesis, ETH Zurich, 2003
- Sergiu Nedeveschi, *Concurrency Control in Real-Time Collaborative Editing Systems*, Master thesis, ETH Zurich, 2002

Supervision of internships of 2-4 months

- Malaury Keslick, Maiwenn Racouchot, *Can we predict quality of Wikipedian contributions based on their past behaviour ?*, (January 2020 - May 2020), research training project (2nd year engineering school), Université de Lorraine, Télécom Nancy
- Juliette Maussion, Mathias Oberti, *Implementation of trust and reputation scores in trust game*, (October 2018 - March 2019), research training project (2nd year engineering school, Université de Lorraine, Télécom Nancy
- Bertrand Boulogne, Jeremy Roesch, Duc Anh Tran, *Evaluation of OpenTripPlanner*, research training project with Communauté Urbaine du Grand Nancy, 2016
- Olivia Fox, *Study of the effect of delay in collaborative editing*, Internship Inria, Département de Psychologie, Wright State University, 2014
- David Rubino, *Experimental study on trust-based collaboration*, Internship project, Inria Nancy-Grand Est, 2014
- Meagan Aldridge, *Study of the effect of delay in collaborative editing*, Internship Inria, Département de Psychologie, Wright State University, (Etats-Unis), 2013
- Benoit Oyez, Olivier Versanne, *Annotation of concurrent changes in version control system*, research training project (2nd year engineering school), Université Henri Poincaré - ESIAL, 2009
- Ioana Ilea, *Awareness in Collaborative Editing of Documents*, Internship project, INRIA Nancy-Grand Est, 2008
- Kamel Aziez, Sihame Droussi, *Collaborative editing of hierarchical documents*, research training project, Master 1 Informatique, Université Henri Poincaré, 2007
- Caroline Boesinger, *Locking in the real-time collaborative graphical editing*, Semester project, ETH Zurich, 2006
- Julian Sgier, *Asynchronous Collaborative XML Editing*, Semester project, ETH Zurich, 2005
- Christoph Lenggenhager, *Analysis of SOCT algorithms as a Basis for the treeOPT algorithm*, Semester project, ETH Zurich, 2005

Teaching

In 2009, 2010, 2011 et 2012 I taught each year 14 hours of lectures and 24 hours of exercise classes on Java and Distributed Systems in the 4th year at ESSTIN (Ecole Supérieure des Sciences et Technologies de l'Ingénieur de Nancy). I was responsible for the lectures as well as exercise classes.

In 2021 I taught 32 hours of exercise classes on Object Oriented Programming at the 1st year of Télécom Engineering School.

I taught in 2010, 2011 et 2014, 2019 and 2020 at the Master 2 Research level at Université de Lorraine a lecture on Data replication (15 hours of lecture and 12 hours of exercise classes each year and 12 hours of additional exercise classes in 2014). I created the content of the lecture and exercise classes.

During my PhD thesis I was involved in the following lectures at ETH Zurich in the period 2000-2006 :

- XML and its technologies (Industrial lecture)
- Collaborative systems - Computer-supported cooperative work (Master)
- Object-oriented databases (Master)
- Functional, logic and object-oriented programming (Bachelor)
- Technologies for large scale information systems Master)
- Information Systems (Bachelor)
- Advanced Information Systems (Master)