Liliana Cucu-Grosjean

Kopernic leader and StatInf co-founder
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45 years, married
Three children (born 2009, 2012 and 2014)

Degrees

- 12/05/2014 Habilitation thesis from Sorbonne University. Title: Contributions to real-time systems

- 28/05/2004 PhD thesis from University Paris-Saclay and prepared at INRIA Paris-Rocquencourt. PhD supervisor: Yves Sorel. Title: Non-preemptive scheduling and schedulability conditions for embedded systems with multiple constraints

- 2000 MSc degree in Physics from University of "Dunarea de Jos" Galati, Romania

- 1998 BSc degree in Mathematics and Theoretical Computer Science, Galati, Romania

Experience

- *since 10/2021* **Senior Researcher** (DR2) at INRIA, Paris

- *since 12/2019* **Statinf co-founder**

- *since 09/2008* **Researcher** at Institut National de Recherche en Informatique et Automatique and *since 07/2018* **Kopernic leader**

- *from 01/2012 to 09/2013* TRIO team leader

- *09/2006-08/2008* Assistant Professor (ATER) at Institut National Polytechnique de Lorraine, Ecole Nationale Superieure des Mines de Nancy

- *01-12/2006* Postdoctoral researcher at Université Libre de Bruxelles (FNRS fellow), Belgium

- *03-09/2005* Postdoctoral researcher at Instituto Superior de Engenharia do Porto (FCT fellow), Portugal

- *06-12/2004* Postdoctoral researcher at INRIA Rocquencourt, OSTRE team

- *02/1997-12/2005* Assistant Professor (Preparator universitar) at University "Dunarea de Jos", Galati, Romania. During this period sabbatical from 09/1999 to 12/2005 for the preparation of PhD thesis

Research interests

- real-time constraints of cyber-physical systems;

- probabilistic and statistical approaches for real-time systems;

Publications

- Complete list of publications at `https://who.rocq.inria.fr/Liliana.Cucu/Publications.html`

- More than 60 publications: 4 invited papers, 2 book chapters, 20 journal papers, 27 international conference papers and 28 international workshop papers

Invited talks (since 2013)

- **Invited talk to Huawei DataGlobalCom 2020**, Probabilities and Statistics to ease the CPS design, October 2020

- **Invited talk at Seminaire@SystemX** on statistical approaches for CPS design, March 2020. Recorded talk available at `https://www.youtube.com/watch?v=YLmdNFpehsQ`

- **Keynote talk** of the 10th International Workshop on Compositional Theory and Technology for Real-Time Embedded Systems (CRTS2017), joint workshop with the IEEE RTSS2017

- **Invited talk** at the 10th International Conference on Mathematical Methods in Reliability (MMR2017). Title: "Probabilistic foundations for the time prediction of cyber-physical systems"

- **Keynote talk** at the 9th edition of Verification and Evaluation of computer and Communication Systems (VECoS2015). Title: "Probabilistic approaches for time critical embedded systems".

- **Keynote talk** of the 21st International Conference on Real-Time Networks and Systems (RTNS 2013), October 2013. Title: "Probabilistic real-time systems".

- **Invited lecture** at French Summer School (ETR 2013), August 2013. Title: "Probabilistic real-time systems"

- **Invited talk** at the workshop for the 60th Anniversary of Professor Alan Burns, March 2013. Title: "Independence - a misunderstood property of and for real-time systems"

Creation of workshops

- **Proposer** and co-organizer of the two Dagstuhl Seminars on Mixed Criticality. The seminar ensures the emergence of a common understanding on mixed-criticality systems (`http://www.dagstuhl.de/15121`).

- **Creation** of the Junior Researcher Workshop on Real-Time Computing in 2007. This workshop is today a regular workshop joint with the International Conference on Real-Time and Networked Systems (RTNS).

- Together with Robert Davis, creation of the International Workshop on Mixed Criticality Systems (WMC), joint workshop with IEEE Real-time Systems Symposium (RTSS).

Steering committee member

- 3 international conferences: RTSS and RTAS (as TCRTS IEEE member) and RTNS (joint committee for JRWRTC).

- 2 international workshops: RTSOPS (joint event with ECRTS) and WMC (joint event with RTSS).

Editing activities

- **Guest Co-Editor of Real-Time Systems Journal** with Prof. Xiaobo Sharon Hu, special issue related to the publication of the RTSS2019 outstanding papers.

- **Guest Co-Editor of Real-Time Systems Journal** with Nathan Fisher, special issue related to the publication of the RTNS2015 outstanding papers.

- **7 co-editing of international workshops proceedings** for JWRTC, RTSOPS, Work-in-Progress session of WFCS and WMC.

Conference chairing

- 2022 – E track chair at DATE2022, General chair of RTSS2022 and General co-chair of RTNS2022.

- 2021 – Topic chair at DATE2021.

- 2020 – Topic co-chair at DATE2020, Track co-chair at RTCSA2020 and General co-chair of RTNS2020.

- 2019 – Track chair at RTSS2019.

- 2018 – PC co-chair of WFCS2018.

- 2017 – local chair of RTSS2017 in Paris.

- 2015 – PC co-chair of RTNS2015

Journal reviewer

- around 25 publications/year for the following journals: Theoretical Computer Science, Transactions on Computers, Journal of Real-Time Systems, Journal of Embedded Computing, Journal of Scheduling, ACM Surveys, ACM TECS, Journal of Systems Architecture, IEEE Transactions on Parallel and Distributed Systems, Information Processing Letters, IEEE Transactions on Industrial Informatics.

PhD thesis reviewer and jury member

- **Reviewer for 10 PhD theses**: Matteo Bertolino (Telecom Paris, 2020), Hai Dang Vu (University of Nantes, 2020), Marco Pagani (University of Lille and Scuola Superiore Sant'Anna, 2020), Stephan Plassart (University of Grenoble, 2020), Roberto Medina (Telecom-Paritech, 2019), Fabrice Guet (ONERA, 2017), Guillaume Phavorin (LIAS, 2016), Antoine Bertout (LIFL, 2015); Maxime Cheramy (INSA Toulouse, 2014) and Vladimir-Alexandru Paun (Ecole Polytechnique, 2014).

- Jury member for 20 PhD theses (including as reviewer): Gautham Nayak Seetanadi (Lund University, 2021), Cedric Courtaud (Sorbonne University, 2020), Francisco Pozo (Malardelan University, 2019), Anh Toan Bui Long (University of Poitiers, 2019), Romain Gratia (Telecom ParisTech, 2017), Abhilash Thekkilakattil (University of Malardalen, 2016); Manar Qamhieh (University Paris-Est, Marne la Valée, 2015); Mikel Cordovilla (University of Toulouse, 2012); Luca Santinelli (Scuola Superiore Sant'Ana, 2011); Moris Behnam (University of Malardalen, 2010).

Supervision

- 5 defended PhD theses, 1 interrupted PhD thesis and 3 ongoing PhD theses;

- 2 Visiting PhD students;

- 9 Postdoctoral researchers;

- MSc and Engineering Schools internships: around 20 students during the last six years.

Teaching

- **ESIEE** teaching from May 2017 to February 2020: Graph theory (32h/year) and Software Engineering (32h/year)

- **Visiting Professor** from September 2015 to August 2018 at University "Dunarea de Jos", Romania. An overall amount of 84h/year.

- **MSc level** teaching from 2008 to 2013: 50h/year within the three MSc of University of Lorraine.

- **Full time Assistant Professor** 2006/2008 at Institut National Polytechnique de Lorraine, Ecole Nationale Superieure des Mines de Nancy.

- **BSc level** 2001/2004 at Computer Science Department of University "Paris V" on: Operations research, Linear Algebra, Cryptography (90h)

Responsibilities

- since 01/2015 **co-chair** of the Equal Opportunities INRIA National Committee.

- 01/2009- 09/2013 **Delegate of International Relations** for INRIA Nancy-Grand Est.

- **Scientific evaluator** within hiring committees for tenured positions either at INRIA (Commission d'évaluation since 2010), or at universities: University Paris Est (2017, 2016), University of Toulouse (2013) and University of Lorraine (2013).

- 01/2017 - 12/2019 IEEE TCRTS chair of the diversity sub-committee

- 09/2011-09/2014 **Scientific evaluator** as member of INRIA National Evaluation Commission on International Relations (GTRI-COST). This commission studies all funding requests for international collaborations of INRIA teams like associated teams.

- 02/2012-09/2013 **Scientific evaluator** as elected member of the Scientific Council on Computer Science of University of Lorraine. This commission evaluates the internal funding request like regional PhD funding or postdoctoral stays.

Management of research teams

- since 07/2018, leader of Kopernic team, Inria Paris. Our web page is available at `https://team.inria.fr/kopernic/`.

- 01/2012- 09/2013 leader of TRIO team, INRIA Nancy-Grand Est. The last activity report of 2012 is available `http://raweb.inria.fr/rapportsactivite/RA2012/trio/trio.pdf`.

Management of research projects

Local **INRIA Principal Investigator (PI) for 10 research projects**: PSPC-region STARTREC (29/03/2021-28/03/2023), StatInf CIFRE (01/10/2020-30/09/2023), Inria EA Kepler (01/10/2020-31/21/2023), FR FUI Ceos (05/2017-11/2020), FR FUI Waruna (09/2015-08/2018), FR LEOC Capacites (11/2014-11/2017), Airbus CIFRE (03/2014-03/2017), FP7 IP PROXIMA (10/2013-10/2016): **WP leader**, FR BGLE DEPARTS (09/2013-09/2018), FP7 STREP PROARTIS (09/2010-09/2013): **WP leader** and FP7 ITEA Timmo-2-use (10/2010-10/2012): **WP leader**.

Career breaks

Three periods of maternity leave during in 2009, 2012 and 2014.