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Damien DOSIMONT

Experience

2012–Present **Beginning Researcher**, *Inria*, Montbonnot Saint-Martin (Lyon Area), France.
Trace analysis based on aggregation, visualization and interaction techniques:
- Bibliography study on trace, information and scientific visualization domains
- Design of an innovative trace analysis tool
- Writing of scientific articles and technical reports
- Communications in various conferences and workshops
- Interaction with industrial partners and occasional consulting (STMicroelectronics)
- Teachings in Polytech'Grenoble engineering school

2011 (6 months) **Engineering Intern**, *Thales Communications and Security, S.A.*, Paris Area, France.
Performance studies and benchmarks realization for different types of software and hardware real-time and embedded architectures.

2010 (2 Months) **Research Engineer**, *LIP6, Université Pierre et Marie Curie Paris VI*, Paris, France.
Design space exploration of telecommunication application on MPSoC (following a 6 month scholar project).

Education

2012–present **PhD, Computer Science** (ongoing), *Université Joseph Fourier*, Grenoble I.
Thesis title: Spatiotemporal Aggregation for Execution Trace Visualization
Advisers: Dr. Guillaume Huard & Dr. Jean-Marc Vincent

2009–2011 **MSc, Computer Science**, *Université Pierre et Marie Curie*, Paris VI, *with honors*.
specialism in Architecture and Conception of Integrated Systems

2005–2009 **BSc, Electronics**, *Université Pierre et Marie Curie*, Paris VI, *with honors*.

Research Interests

Trace Visualization

SoC-Trace Project I work in the SoC-Trace project, which gathers academics like INRIA, LIG laboratory, and industrial partners like STMicroelectronics, Probayes or Magillem. My research focuses on the visualization of traces provided by the execution of embedded multimedia applications, in order to analyze their behavior. I propose solutions based on data aggregation to provide scalability and help the analysis of traces that contain much information.

SONGS Project I am also involved in the SONGS project, funded by the French Research National Agency, and focused on the simulation of large parallel systems. This project gives me the opportunity to extend the analysis techniques I design to parallel applications.

Main Publications

[1] D. Dosimont, R. Lamarche-Perrin, L.M. Schnorr, G. Huard, J-M. Vincent, A Spatiotemporal Data Aggregation Technique for Performance Analysis of Large-scale Execution Traces, in *Proceedings of the 2014 IEEE International Conference on Cluster Computing (CLUSTER'14)*, Madrid, September 2014

[2] D. Dosimont, G. Pagano, G. Huard, V. Marangozova-Partin, J-M. Vincent, Efficient Analysis Methodology for Huge Application Traces, in *Proceedings of the 2014 International Conference on High Performance Computing & Simulation (HPCS)*, Bologna, July 2014

Teaching Experience

Polytech'Grenoble Engineering School (128 hours)

2013–2014	**C** practicals, 3I 3rd year
2012–2014	**Unix Project** practicals, 3I 4th year
	APO (Algorithmic and Object Programming) practicals, TIS 3rd year
	AL (Software Architecture) practicals, TIS 3rd year
2012–2013	**C++** practicals, E2I 4th year
	Internship tutoring

Language Skills

French	**Mother Tongue**
English	**Advanced**
Portuguese (Brazil)	**Basic**
German	**To reactivate**

Programming Skills

Languages	**Proficient: C, C++, Java**
	Familiar: Python, Shell Unix (Bash), ASM, SystemC, VHDL, HTML, LaTeX
OS	Linux, Windows

Interests

Technologies	Video games, programming
Music	Computer music, guitar, bass guitar, saxophon
Sports	Mountain bike, running
Literature	Science fiction, classical, detective novels

References

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Jean-Marc Vincent Associate Professor, Université Joseph Fourier, Grenoble I
Ismier, ✉ `jean-marc.vincent@imag.fr`

Daniela Genius Associate Professor, Université Pierre et Marie Curie, Paris VI
✉ `daniela.genius@lip6.fr`

Emmanuelle Encrenaz Associate Professor, Université Pierre et Marie Curie, Paris VI
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Julien Maréchal Software Engineer, Thales Communications and Security, S.A.
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