

Curriculum Vitae

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Gilles Muller
Senior Research Scientist

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Education

Habilitation à diriger des recherches, October 1997, University of Rennes 1

Title : Contribution to the Design of Adaptive and Extensible Operating Systems:
from Micro-kernel to Partial Evaluation

Jury members : Jean-Pierre Banâtre, Roland Balter, David Powell, Calton Pu,
Michel Banâtre, Charles Consel.

PhD in computer science, June 1988, University of Rennes 1

Title: The Design and Building of a Reliable Multiprocessor Architecture

Jury members: Laurent Kott, Jacques Lenfant, Gérard Roucairol,
Jean-Pierre Verjus, Jean-Pierre Banâtre, Michel Banâtre.

Professional Experience

September 2009 - Senior Research Scientist, INRIA,
member of the REGAL INRIA Paris-Rocquencourt group.

March 2002 - August 2009 Professor, Ecole des Mines de Nantes,
member of the OBASCO EMN/INRIA, LINA group.

October 1988 - February 2002 Associate Research Scientist (*Chargé de recherche*), INRIA
1996- February 2002 member of the COMPOSE group (created with Charles Consel).
1988-1996 member of the LSP/SOLIDOR group.

1985-1988: PhD student.

Grants and Contrats

- **CIFRE Orange**, 2012-2014, *Software robustness in OSGi*, Co-Principal Investigator. 30 000 euros.
- **ANR INFRA**, 2012-2015, *INFRA-JVM*, Participant. 202 600 euros.
- **ANR non thématique ABL**, 2009-2012, *A Bug's life*, Principal Investigator. 237 800 euros.
- **ANR logicielle SADAJ**, 2006–2009, *Safe And Deterministic Automotive Java on cost effective microcontrollers*, Co-Principal Investigator. 130 000 euros.
- **ANR non thématique FLFS**, 2006–2009, *Family of Languages for Family of Systems*, Participant. 206 000 euros.
- **ARC INRIA VeriTLA+**, 2006–2007, Participant. 47 000 euros global to the project.
- **ANR non thématique Coccinelle**, 2005-2008, *A Language-Based Approach to Managing the Collateral Evolution of Linux Device Drivers*, Principal Investigator. 220 000 euros.
- **CIFRE Jaluna**, 2004-2007, *Scheduling and hierarchies of OSES*, Principal Investigator. 36 000 euros.

- **ACI CORSS**, 2003-2006, *Property verification in system software*, Principal Investigator. 21 000 euros.
- **Microsoft**, 2003, *Port of Bossa under XP*, Principal Investigator. Dollar 25 000.
- **Microsoft**, 2003, *Methodologies for OS development*, Principal Investigator. Euros 20 000.
- **Action Spécifique, CNRS**, 2002, *Methodologies and tools for OS development*, Project manager.
- **ITEA European project**, 1999-2001, *ESAPS - Technologie de développement de lignes de produits*, Co-Principal Investigator (with Charles Consel). FF 526 000.
- **ITEA European project**, 1999-2001, *DESS - Méthodologie de développement de logiciels adaptée aux systèmes embarqués*, Co-Principal Investigator (with Charles Consel). FF 530 000.
- **France Télécom/CNET (CTI)**, 1999-2002, *Adaptation de systèmes réflexifs au moyen de langages dédiés*, Principal Investigator. FF 990 000.
- **RNRT**, projet Phénix, 2000-2003, *Noyaux d'infrastructure répartie adaptable*, Principal Investigator. FF 1 089 000.
- **BULL**, 1998-2001, *Optimisation de Java pour les cartes à microprocesseur*, Co-Principal Investigator (with Charles Consel). FF 830 000.
- **Alcatel**, 1997-2000, *Approche déclarative à l'optimisation d'applications de télécommunication - projet Reutel 2000*, Co-Principal Investigator (with Charles Consel). FF 864 000.
- **Thomson Multimédia**, 1999-2000, *Conception d'environnement de programmation pour les langages dédiés au domaine des systèmes embarqués multimédia grand public*, Co-Principal Investigator (with Charles Consel). FF 800 000.
- **Thomson Multimédia**, 1998 (6 month), *Génération automatique de composants logiciels à partir de descriptions de haut niveau*, Co-Principal Investigator (with Charles Consel). FF 250 000.
- **France Télécom/CNET (CTI)**, 1995-1998, *Adaptation dynamique de programmes système par spécialisation incrémentale*, Co-Principal Investigator (with Charles Consel). FF 990 000.
- **Conseil Régional de Bretagne**, 1997-1998, *Optimisation de Java pour les services multimédia*, Co-Principal Investigator (with Charles Consel). FF 500 000.
- **Conseil Régional de Bretagne**, 1994-1995, *Étude et mise en œuvre d'une plate-forme ATM locale*, Technical supervision, Principal Investigator Michel Banâtre. FF 660 000.
- **DRET**, 1990-1994, *Étude et réalisation d'une architecture multiprocesseur tolérante aux pannes et du système opératoire associé*, Technical supervision, Principal Investigators Jean-Pierre Banâtre and Michel Banâtre. FF 1 600 000.
- **MRT**, 1989-1992, *Conception et réalisation de cartes prototypes "Mémoire stable"*, Technical supervision, Principal Investigators Jean-Pierre Banâtre and Michel Banâtre. FF 660 000.
- **DRET**, 1987-1988, *Mécanismes logiciels de reprise dans une architecture tolérante aux pannes*, Technical supervision, Principal Investigator Jean-Pierre Banâtre. FF 80 000.

PhD Thesis Supervised

- **Suman Saha**, *Improving the Quality of Error-Handling Code in Systems Software using Function-Local Information*, University of Paris 6, March 2013, co-supervised with Julia Lawall. William Carter Award at DSN 2013.
- **Fabien Hermenier**, *Gestion dynamique des tâches dans les grappes, une approche à base de machines virtuelles*, École des Mines de Nantes, November 2009, co-supervised with Jean-Marc Menaud.
- **Nicolas Lorient**, *Évolution dynamique des systèmes d'exploitation, une approche par aspects*, École des Mines de Nantes, December 2007, co-supervised with Jean-Marc Menaud.
- **Luciano Porto Barreto**, *Conception aisée et robuste d'ordonnanceurs de processus au moyen d'un langage dédié*, Université de Rennes 1, June 2003.
- **Philippe Boinot**, *Approche déclarative à l'adaptation de systèmes de télécommunications*, Université de Rennes 1, June 2002.
- **Laurent Réveillère**, *Approche langage au développement de pilotes de périphériques robustes*, Université de Rennes 1, December 2001, co-supervised with Charles Consel.
- **Ulrik Pagh Schultz**, *Object-Oriented Software Engineering using Partial Evaluation*, Université de Rennes 1, December 2000, co-supervised with Charles Consel.
- **Eugen-Nicolae Volanschi**, *Une approche automatique à la spécialisation de programmes système*, Université de Rennes 1, February 1998, co-supervised with Charles Consel.
- **Nadine Peyrouze**, *Conception et réalisation d'un système de gestion de fichier NFS efficace et sûr de fonctionnement*, Université de Rennes 1, September 1995.
- **Bruno Rochat**, *Une approche à la construction de services fiables dans les systèmes distribués*, Université de Rennes 1, February 1992, co-supervised with Michel Banâtre.

Professional Activities

- **Vice-chair of ACM/SIGOPS from July 2003 to June 2007.**
- Chair of the French chapter of ACM/SIGOPS October 2002 - March 2005.
- Treasurer of the French chapter of ACM/SIGOPS April 2000 - September 2002.
- Jury member for award of the best EuroSys PhD thesis in Systems (Roger Needham Award), in 2007, 2008, 2009, 2011.

- Co-organizer of PLOS 2013, Nemaquin Woodlands Resort, Pennsylvania, USA, November 2013.
- Program committee of DSN 2013, Budapest, Hungary, June 2013.
- Program committee of EuroSys 2013, Prague, Czech Republic, April 2013.

- Program committee of ICDCN 2013, Mumbai, India, January 2013.
- Poster Chair of DSN 2012, Boston, USA, June 2012.
- **Co-chair of track on Distributed OS and Middleware of ICDCS 2012, Macau, China, June 2012.**
- Program committee of SYSTOR 2012, Haifa, Israel, June 2012.
- Poster Chair of EuroSys 2012, Bern, Switzerland, April 2012.
- Program committee of SRDS 2011, Madrid, Spain, October 2011.
- Program committee and co-organizer of PLOS 2011, Cascais, Portugal, October 2011.
- Program committee of APSys 2011, Shanghai, China, July 2011.
- Program committee of CFSE-8 (8th Conférence française sur les systèmes d'exploitation), St-Malo, May 2011.
- Program committee of SYSTOR 2011, Haifa, Israel, May 2011.
- Program committee of the 5th EuroSys Doctoral workshop, Salzburg, April 2011.
- Program committee of HotDep'10, Vancouver, Canada, October 2010.
- Program committee of DCCS/DSN'2010 (IEEE Conference on Dependable Systems and Networks), Chicago, IL, June 2010.
- **Program chair of EuroSys 2010, Paris, April 2010.**
- Program committee of SSS'09 (International Symposium on Stabilization, Safety and Security of Distributed Systems, track multicore computing), Lyon, November 2009.
- **Program chair of PLOS 2009 (5th Workshop on Programming Languages and Operating Systems), Big Sky, MT, USA, October 2009.**
- Program committee of CFSE-7 (7th Conférence française sur les systèmes d'exploitation), Toulouse, September 2009.
- Program committee of ICWS 2009 (IEEE International Conference on Web Services), Los Angeles, July 2009.
- Program committee of ACP4IS 2009 (7th Workshop on Aspects, Components, and Pattern for Infrastructure Software), Charlottesville, Virginia, March 2009.
- Program committee of ICWS 2008 (IEEE International Conference on Web Services), Beijing, September 2008.
- Program committee of ASPLOS'2008 (ACM International Conference on Architectural Support for Programming Languages and Operating Systems), Seattle, March 2008.
- Program committee of EDCC'2008 (European Dependable Computing Conference), Kaunas, Lithuania, 2008.

- Program committee of DSN/PDS 2008 (IEEE Conference on Dependable Systems and Networks), Anchorage, Alaska, June 2008.
- Program committee of HASE'2008 (11th IEEE High Assurance Systems Engineering Symposium), Nanjing, China, December 2008.
- Program committee of CFSE-6 (6th Conférence française sur les systèmes d'exploitation), Fribourg, February 2008.
- Program committee of ICWS 2007 (IEEE International Conference on Web Services), Salt Lake City, July 2007.
- Program committee of DCCS/DSN'2007 (IEEE Conference on Dependable Systems and Networks), Edinburgh, June 2007.
- Program committee of ICDCS'2007 (IEEE International Conference on Distributed Computing Systems), Toronto, June 2007.
- Program committee of ISORC'2007 (10th IEEE International Symposium on Object and component-oriented Real-time distributed), Santorin, Greece, May 2007.
- Program committee of EuroSys 2007 (ACM Sigops/EuroSys Conference), Lisbon, March 2007.
- Program committee of PLOS 2006 (Linguistic Support for Modern Operating Systems, ASPLOS XII Workshop), San José, October 2006.
- Program committee of SRDS 2006 (25th IEEE Symposium on Reliable Distributed Systems), Leeds, October 2006.
- Program committee of DCCS/DSN'2006 (IEEE Conference on Dependable Systems and Networks), Philadelphia, June 2006.
- Program committee of CFSE-5 (5-Ieme Conférence française sur les systèmes d'exploitation), Perpignan, October 2006.
- Jury member for award of the best French thesis in operating system, October 2006 during CFSE-5.
- Program committee and Poster chair of EuroSys 2006 (ACM Sigops/EuroSys Conference), Leuven, April 2006.
- Program committee of ISORC'2006 (9th IEEE International Symposium on Object and component-oriented Real-time distributed), Gyeongju, Korea, April 2006.
- Publicity chair of Middleware 2005 (ACM/IFIP/USENIX 6th International Middleware Conference), Grenoble, November 2005.
- Program committee of SRDS 2005 (24th IEEE Symposium on Reliable Distributed Systems), Orlando, October 2005.
- Program committee of HASE 2005 (9th Intl. Symposium on High Assurance Systems Engineering), Heidelberg, October 2005.

- Program committee of SaNSO 2005 (First international workshop on System and Networking for Smart Objects), Fukuoka, July 2005.
- Program committee of ICPP-05 (International Conference on Parallel Processing), Oslo, June 2005.
- Program committee of ICDCS-2005 (International Conference on Distributed Computing Systems), Columbus (Ohio), June 2005.
- Program committee of ISAS 2005 (Second International Service Availability Symposium), Berlin, April 2005.
- Program committee of CFSE-4 (4^{ème} Conférence française sur les systèmes d'exploitation), Le Croisic, April 2005.
- Program Chair of Renpar 2005, Le Croisic, April 2005.
- General Chair of Renpar/CFSE/SympaAA/JC 2005, Le Croisic, April 2005.
- Program committee of EW2004 (11th ACM European Sigops Workshop), Leuven, September 2004.
- Program committee of PLOS-2004 (ECOOP Workshop on Programming Languages and Operating Systems), Oslo, June 2004.
- Program committee of DSN'2004 (IEEE Conference on Dependable Systems and Networks), Firenze, June 2004.
- Program committee of FTDCS'2004 (International Workshop on Future Trends of Distributed Computing Systems), Suzhou (China), May 2004.
- Program committee of DAIS'2003 (4th IFIP International Conference on Distributed Applications ' & Interoperable Systems), Paris, November 2003.
- Program committee of CFSE-3 (3^{ème} Conférence française sur les systèmes d'exploitation), La Colle sur Loup, October 2003.
- Jury member for award of the best French thesis in operating system issued in October 2003 during CFSE-3. Award sponsored by the ASF (French chapter of the ACM/SIGOPS) and Microsoft.
- Program committee of DSN'2003 (IEEE Conference on Dependable Systems and Networks), San Francisco, June 2003.
- General Chair of the tenth ACM SIGOPS European Workshop, St-Emilion, September 2002.
- Program committee of EDCC-4 (European Dependable Computing Conference), Toulouse, October 2002.
- Program committee of SRDS'2001 (IEEE Symposium on Reliable Distributed Systems), New-Orleans, October 2001.
- Program committee of DSN'2001 (IEEE Conference on Dependable Systems and Networks), Göteborg, Sweden, July 2001.

- Program committee of CFSE-2 (2^{ème} Conférence française sur les systèmes d'exploitation), Paris, April 2001.
- Jury member for the award of the best French thesis in operating system issued in April 2001 during CFSE-2. Award sponsored by the ASF (French chapter of the ACM/SIGOPS).
- Program committee of SRDS'2000 (Symposium on Reliable Distributed Systems), Nürnberg, October 2000.
- Program committee of PEPM'00 (ACM SIGPLAN Workshop on Partial Evaluation and Semantics-Based Program Manipulation), Boston, December 1999.
- Program committee of SRDS'99 (Symposium on Reliable Distributed Systems), Lausanne, Switzerland, October 1999.
- Program committee of EDCC-3 (European Dependable Computing Conference), Prague, Czech Republic, September 1999.
- Program committee of EDCC-2 (European Dependable Computing Conference), Taormina, Italy, October 1996.

Bibliography

The most significant papers are printed in bold face.

Proceedings

- [A1] C. Morin, G. Muller, *Proceedings of the 5th European conference on Computer systems (EuroSys)*, 2010, Paris, France.
- [A2] E. Eide, G. Muller, O. Spinczyk, *Proceedings of the fifth workshop on programming languages and operating systems (PLOS)*, Big Sky, Montana, October 2009.

Journal Papers

- [J1] F. Hermenier, J. Lawall, G. Muller, BtrPlace: A Flexible Consolidation Manager for Highly Available Applications, *Transactions on Dependable and Secure Computing*, To appear.
- [J2] J. Lawall, J. Brunel, N. Palix, R. R. Hansen, H. Stuart, G. Muller, WYSIWIB: Exploiting Fine-Grained Program Structure in a Scriptable API-Usage Protocol Finding Process, *Software:Practice and Experience*, 37(13), January 2013.
- [J3] S. Legtchenko, S. Monnet, P. Sens, G. Muller, RelaxDHT: a churn-resilient replication strategy for peer-to-peer distributed hash-tables, *ACM Transactions on Autonomous and Adaptive Systems*, July 2012, 7(2).
- [J4] L. Burgy, L. Réveillère, J. Lawall, G. Muller, Zebu: A Language-Based Approach for Network Protocol Message Processing, *IEEE Transactions on Software Engineering*, 37(4), p. 575-591, 2011.
- [J5] P. Cointe, J. Noyé, R. Douence, T. Ledoux, J.-M. Menaud, G. Muller, M. Südholt, Programmation post-objets : des langages d'aspects aux langages de composants, *RSTI L'Objet, colloque en l'honneur de Jean-François Perrot* 10, 4, 2004.
- [J6] **G. Muller, J. Lawall, S. Thibault, R. E. V. Jensen, « A Domain-Specific Language Approach to Programmable Networks », *IEEE - Transactions on Systems, Man and Cybernetics*, 2003.**
- [J7] **D. McNamee, J. Walpole, C. Pu, C. Cowan, C. Krasic, C. Goel, C. Consel, G. Muller, and R. Marlet. Specialization tools and techniques for systematic optimization of system software. *ACM Transactions on Computer Systems*, 19, 2001, p. 217–251.**
- [J8] **L. Clausen, U. Schultz, C. Consel, and G. Muller. Java bytecode compression for low-end embedded systems. *ACM Transactions on Programming Languages and Systems*, 22(3), 2000, p. 471–489.**
- [J9] S. Thibault, C. Consel, R. Marlet, G. Muller, and J. Lawall. Static and dynamic program compilation by interpreter specialization. *Higher-Order and Symbolic Computation* 13, 3, 2000, p. 161–178.
- [J10] **G. Muller, R. Marlet, and E.N. Volanschi. Accurate Program Analyses for Successful Specialization of Legacy System Software *Theoretical Computer Science*, 248(1–2), 2000, p. 201–210.**

- [J11] G. Muller and U. Schultz. Harissa: A hybrid approach to Java execution. *IEEE Software*, p. 44–51, 1999.
- [J12] C. Consel, L. Hornof, J. Lawall, R. Marlet, G. Muller, J. Noyé, S. Thibault, and N. Volanschi. Tempo: Specializing systems applications and beyond. *ACM Computing Surveys, Symposium on Partial Evaluation*, 30(3), 1998.
- [J13] C. Consel, L. Hornof, J. Lawall, R. Marlet, G. Muller, J. Noyé, S. Thibault, and N. Volanschi. Partial evaluation for software engineering. *ACM Computing Surveys, Symposium on Partial Evaluation*, 30(3), 1998.
- [J14] **G. Muller, M. Banâtre, N. Peyrouze, et B. Rochat. Lessons from FTM: an experiment in the design & implementation of a low cost fault tolerant system. *IEEE Transaction on Reliability*, June 1996. Extended version appeared in INRIA research report 2517.**
- [J15] M. Banâtre, P. Joubert, C. Morin, G. Muller, B. Rochat, et P. Sanchez. Stable transactional memories and fault tolerant architectures. *Operating System Review*, 25:68–72, 1991.
- [J16] J. P. Banâtre, M. Banâtre, et G. Muller. Quelques aspects du système Gothic. *Techniques et Sciences Informatiques*, 6(2), 1987.

Book Chapters

- [B1] G. Muller, C. Consel, et C. Pu. Specialization. In J. Urban, et P. Dasgupta, editors, *Encyclopedia of Distributed Computing*, Kluwer Academic Publisher. 1999, To appear.
- [B2] G. Muller and P. Sens. Migration et points de reprise dans les systèmes distribués : techniques de mise en œuvre et mécanismes communs. In *Placement Dynamique et Répartition de Charge : application aux systèmes parallèles et répartis*, p. 57–80. INRIA, 1997.
- [B3] G. Muller. Gothic : le concept de mémoire stable et son utilisation. In J. P. Banâtre, M. Banâtre, éditeurs, *Expérience dans la construction d'un système distribué: Gothic*, chapitre 7, p. 177–216. InterEditions, 1991.

Conference Papers

- [C1] **S. Saha, J-P. Lozi, G. Thomas, J. Lawall, G. Muller, Hector: Detecting Resource-Release Omission Faults in Error-Handling Code for Systems Software, in : 43rd Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2013). Budapest, Hungary, June 2013. William Carter award.**
- [C2] J-T. Wamhoff, C. Fetzer, P. Felber, E. Riviere, G. Muller, FastLane: improving performance of software transactional memory for low thread counts in : *ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming, (PPoPP 2013)*. Shenzhen, China, February 2013.
- [C3] **T. Bissyandé, L. Réveillère, J. Lawall, G. Muller, Diagnosys: Automatic Generation of a Debugging Interface to the Linux kernel, in : 27th IEEE/ACM International Conference on Automated Software Engineering (ASE 2012). Essen, Germany, September 2012. Best paper award.**

- [C4] **J-P. Lozi, F. David, G. Thomas, J. Lawall, G. Muller, Remote Core Locking: Migrating Critical-Section Execution to Improve the Performance of Multithreaded Applications**, in : *Usenix Annual Technical Conference (ATC 2012)*, p. 65-76. Boston, MA, USA, June 2012.
- [C5] W. Maldonado, P. Marlier, P. Felber, J. Lawall, G. Muller, E. Rivière, Deadline-Aware Scheduling for Software Transactional Memory, in : *41th IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2011)*, p. 257-268. Hong Kong, China, June 2011.
- [C6] S. Saha, J. Lawall, G. Muller, An Approach to Improving the Structure of Error-Handling Code in the Linux Kernel, in : *ACM SIGPLAN/SIGBED Conference on Languages, Compilers, Tools and Theory for Embedded Systems*, p. 41-50. Chicago, IL, USA, April 2011.
- [C7] **N. Palix, S. Saha, G. Thomas, C. Calvès, J. Lawall, G. Muller, Faults in Linux: Ten Years Later**, in : *Sixteenth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS 2011)*, p. 305-318. Newport Beach, CA, USA, March 2011.
- [C8] T. Bissyandé, L. Réveillère, Y-D. Bromberg, J. Lawall, G. Muller, Bridging the Gap between Legacy Services and Web Services, in : *the 11th ACM/IFIP/USENIX International Conference on Middleware*, p. 273-292. Bangalore, India, November 2010.
- [C9] F. Gaud, S. Geneves, R. Lachaize, B. Lepers, F. Mottet, G. Muller, V. Quéma, Efficient Workstealing for Multicore Event-Driven Systems in : *2010 International Conference on Distributed Computing Systems (ICDCS 2010)*, p. 516-525. Genova, Italy, June 2010.
- [C10] J. Lawall, B. Laurie, R. R. Hansen, N. Palix, G. Muller, Finding Error Handling Bugs in OpenSSL Using Coccinelle, in : *8th European Dependable Computing Conference (EDCC-8)*, p. 191-196. Valencia, Spain, April 2010.
- [C11] N. Geoffray, G. Thomas, J. Lawall, G. Muller, B. Folliot, VMKit: a substrate for managed runtime environments, in : *6th International Conference on Virtual Execution Environments (VEE 2010)*, p. 51-62. Pittsburgh, Pennsylvania, USA, March 2010.
- [C12] N. Palix, J. Lawall, G. Muller, Tracking code patterns over multiple software versions with Herodotos, in : *9th International Conference on Aspect-Oriented Software Development*, p. 169-180. Rennes and Saint-Malo, France, March 2010.
- [C13] W. Maldonado, P. Marlier, P. Felber, J. Lawall, G. Muller, A. Suissa, D. Hendler, A. Fedorova, Scheduling support for transactional memory contention management, in : *15th ACM SIGPLAN Annual Symposium on Principles and Practice of Parallel Programming*, p. 79-90. Bangalore, India, January 2010.
- [C14] S. Legtchenko, S. Monnet, P. Sens, G. Muller, Churn-resilient replication strategy for peer-to-peer distributed hash-tables, in : *The 11th International Symposium on Stabilization, Safety, and Security of Distributed Systems*, p. 485-499. Lyon, France, November 2009.
- [C15] Y-D. Bromberg, L. Réveillère, J. Lawall, G. Muller, Automatic generation of network protocol gateways, in : *the 10th ACM/IFIP/USENIX International Conference on Middleware*, Urbana, Illinois, November 2009.

- [C16] N. Geoffray, G. Thomas, G. Muller, P. Parrend, S. Frénot, B. Folliot, I-JVM: a Java Virtual Machine for Component Isolation in OSGi, *in: the 39th IEEE/IFIP International Conference on Dependable Systems and Networks - Dependable Computing and Communications Symposium*, Estoril, Portugal, June 2009.
- [C17] J. L. Lawall, J. Brunel, N. Palix, R. R. Hansen, H. Stuart, G. Muller, WYSIWIB: A Declarative Approach to Finding API Protocols and Bugs in Linux Code, *in: the 39th IEEE/IFIP International Conference on Dependable Systems and Networks - Dependable Computing and Communications Symposium*, Estoril, Portugal, June 2009.
- [C18] F. Hermenier, X. Lorca, J.M. Menaud, G. Muller, J. Lawall, Entropy: a Consolidation Manager for Clusters, *in: The 2009 ACM SIGPLAN/SIGOPS International Conference on Virtual Execution Environments*, Washington DC, March 2009.
- [C19] J. Brunel, D. Doliguez, R. R. Hansen, J. Lawall, G. Muller, A Foundation for Flow-Based Program Matching Using Temporal Logic and Model Checking, *in: The 36th Annual ACM SIGPLAN - SIGACT Symposium on Principles of Programming Languages*, Savannah, Georgia, USA, January, 2009.
- [C20] Y. Padioleau, J. L. Lawall, G. Muller, Documenting and Automating Collateral Evolutions in Linux Device Drivers, *in: The 3rd ACM SIGOPS EuroSys conference (EuroSys 2008)*, p. 247-260. Glasgow, Scotland, april 2008.
- [C21] L. Burgy, L. Réveillère, J. Lawall, G. Muller, A Language-Based Approach for Improving the Robustness of Network Application Protocol Implementations, *in 26th IEEE International Symposium on Reliable Distributed Systems*, p. 149–160. october 2007.
- [C22] R. URUNUELA, J. LAWALL, G. MULLER, Energy Adaptation for Multimedia Information Kiosks, *in: International Conference on Embedded Software, EMSOFT'06*, S. Min, W. Yi (éd.), ACM, Seoul, South Korea, October 2006.
- [C23] Y. PADIOLEAU, J. L. LAWALL, G. MULLER, « Understanding Collateral Evolution in Linux Device Drivers », *in: The first ACM SIGOPS EuroSys conference (EuroSys 2006)*, p. 59–71, Leuven, Belgium, April 2006. Also available as INRIA Research Report RR-5769.
- [C24] J.-P. BODEVEIX, M. FILALI, J. LAWALL, G. MULLER, Formal Methods Meet Domain Specific Languages, *in: Fifth International Conference on Integrated Formal Methods*, J. Romijn, G. Smith, J. van de Pol (éd.), *Lecture Notes in Computer Science, 3771*, p. 187–206, Eindhoven, The Netherlands, November 2005.
- [C25] G. Muller, J. L. Lawall, H. Duchesne, A Framework for Simplifying the Development of Kernel Schedulers: Design and Performance Evaluation, *in: HASE 2005 - High Assurance Systems Engineering Conference*, Heidelberg, Germany, October 2005.
- [C26] J. Lawall, H. Duchesne, G. Muller, A.-F. L. Meur, Bossa Nova: Introducing Modularity into the Bossa Domain-Specific Language, *in: Generative Programming and Component Engineering: Fourth International Conference, GPCE 2004*, Tallinn, Estonia, September 2005.

- [C27] J.L. Lawall, A.-F. Le Meur, G. Muller, **On Designing a Target-Independent DSL for Safe OS Process-Scheduling Components**, in : *3rd International Conference on Generative Programming and Component Engineering (GPCE'04)*, p. 436–455, Vancouver, Canada, October 2004.
- [C28] J.L. Lawall, G. Muller, and H. Duchesne, Language Design for Implementing Process Scheduling Hierarchies, in : *ACM SIGPLAN 2004 Symposium on Partial Evaluation and Program Manipulation (PEPM'04)*, p. 80–91, Verona, Italy, August 2004. Invited Paper.
- [C29] R.A. Åberg, J.L. Lawall, M. Sudhot, G. Muller, A.-F. Le Meur, On the automatic evolution of an OS kernel using temporal logic and AOP, in : *Proceedings of the 18th IEEE International Conference on Automated Software Engineering 2003 (ASE 2003)*, p. 196–204, Montreal, Canada, October 2003.
- [C30] M. Ségura-Devillechaise, J.-M. Menaud, G. Muller, J. Lawall, Web Cache Prefetching as an aspect: Towards a Dynamic-Weaving Based Solution, in : *Proceedings of the 2nd international conference on Aspect-oriented software development*, ACM Press, p. 110–119, Boston, USA, March 2003.
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