

Publication List

Christine Morin

April 2011

PhD & HDR dissertations

- [1] Christine Morin. *Protocole d'appel de multiprocédure à distance dans le système Gothic : définition et mise en oeuvre*. Thèse de doctorat, Université de Rennes I, December 1990. Soutenue le 18 décembre 1990 (jury : J.P. Banâtre, M. Diaz (rapporteur), C. Jard (rapporteur), R. Balter, M. Banâtre, J. Camillerapp, L. Svobodova, J.P. Verjus).
- [2] Christine Morin. *Architectures et systèmes distribués tolérants aux fautes*. Habilitation à diriger des recherches, Université de Rennes 1, March 1998. Soutenue le 5 mars 1998 (jury : J.P. Banâtre, M. Banâtre, M. Diaz, S. Krakowiak (rapporteur), P. Lee (rapporteur), K. Rothermel (rapporteur), A. Sez nec).

Book Chapters

Book Chapters in English

- [1] Michel Banâtre, Alain Gefflaut, and Christine Morin. Scalable shared memory multiprocessors : Some ideas to make them reliable. In Michel Banâtre and P. A. Lee, editors, *Hardware and Software Architectures for Fault Tolerance, Experiences and perspectives*, number 774 in LNCS, pages 29–44. Springer Verlag, 1994.
- [2] Anne-Marie Kermarrec and Christine Morin. An efficient recoverable DSM on a network of workstations : Design and implementation. In D. Kaeli and D. Avresky, editors, *Fault-Tolerant Parallel and Distributed Systems*, pages 123–138. Kluwer Academic Press, 1998.
- [3] A. Sahai and Christine Morin. Mobile agents for managing networks : the Magenta perspective. In A. Hayzelden and J. Bigham, editors, *Software Agents for Future Communications Systems*, chapter 15. Springer Verlag, 1999.

Book Chapters in French

- [1] Christine Morin. Protocole d'appel de multiprocédure à distance. In Jean-Pierre Banâtre and Michel Banâtre, editors, *Les systèmes distribués : l'expérience du projet Gothic*, pages 217–249. InterEditions, February 1991.
- [2] Christine Morin, Alexandre Denis, Raymond Namyst, Olivier Aumage, and Renaud Lottiaux. Des réseaux de calculateurs aux grilles de calcul. In Jacky Akoka and Isabelle Comyn-Wattiau, editors, *Encyclopédie de l'informatique et des systèmes d'information*, volume Section 2 - Architectures et systèmes distribués of *Collection informatique*, pages 211–239. Vuibert, November 2006.

Book Chapters from Thematic Schools

- [1] Christine Morin. Conception de systèmes à image unique pour une grappe. In Jean-Louis Pazat, Sanjay Rajopadhye, and Jean Roman, editors, *iHPerf2000, Applications parallèles Hautes Performances : analyse, conception et utilisation de grappes homogènes ou hétérogènes de calculateurs*. école d'hiver iH-Perf2000, December 2000.

International Publications

Articles in Journals

- [1] Michel Banâtre, Alain Gefflaut, Philippe Joubert, Christine Morin, and Pete Lee. An architecture for tolerating processor failures in shared-memory multiprocessors. *IEEE Transactions on Computers*, 45(10) :1101–1115, October 1996.
- [2] Christine Morin and Isabelle Puaut. A survey of recoverable distributed shared memory systems. *IEEE Transactions on Parallel and Distributed Systems*, 8(9) :959–969, September 1997.
- [3] Anne-Marie Kermarrec, Christine Morin, and Michel Banâtre. Design, implementation and evaluation of ICARE : an efficient recoverable DSM. *Software Practice and Experience*, 28(9) :981–1010, July 1998.

- [4] Christine Morin, Anne-Marie Kermarrec, Michel Banâtre, and Alain Gefflaut. An efficient and scalable approach for implementing fault tolerant DSM architectures. *IEEE Transactions on Computers*, 49(5) :414–430, May 2000.
- [5] Pascal Gallard and Christine Morin. Dynamic streams for efficient communications between migrating processes in a cluster. *Parallel Processing Letters*, 13(4) :601–614, December 2003.
- [6] Anne-Marie Kermarrec and Christine Morin. HA-PSLS : a highly available parallel single level store system. *Concurrency and Computation : Practice and Experience*, 15(10) :911–937, July 2003.
- [7] Geoffroy Vallée, Renaud Lottiaux, Louis Rilling, Jean-Yves Berthou, Ivan Dutka-Malhen, and Christine Morin. A case for single system image cluster operating systems : the Kerrighed approach. *Parallel Processing Letters*, 13(2) :95–122, June 2003.
- [8] Christine Morin, Pascal Gallard, Renaud Lottiaux, and Geoffroy Vallée. Towards an efficient single system image cluster operating system. *Future Generation Computer Systems*, 20(4) :505–521, May 2004.
- [9] Emmanuel Jeanvoine, Louis Rilling, Christine Morin, and Daniel Leprince. Using overlay networks to build operating system services for large scale grids. *Scalable Computing : Practice and Experience*, 8(3) :229–239, September 2007.
- [10] Massimo Coppola, Yvon Jégou, Brian Matthews, Christine Morin, Luis Pablo Prieto, Oscar David Sánchez, Erica Yang, and Haiyan Yu. Virtual organization support within a grid-wide operating system. *IEEE Internet Computing*, 12(2) :20–28, March 2008.
- [11] Christine Morin, Jérôme Gallard, Yvon Jégou, and Pierre Riteau. Clouds : a new playground for the XtremOS grid operating system. *Parallel Processing Letters*, 19(3) :435–449, September 2009.
- [12] Eugen Feller, John Mehnert-Spahn, Michael Schoettner, and Christine Morin. Independent checkpointing in a heterogeneous grid environment. *Future Generation Computer Systems (FGCS)*, 2011. to appear.
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- [1] Jean-Pierre Banâtre, Michel Banâtre, and Christine Morin. Implementing atomic rendezvous within a transactional framework. In *Proc. of 8th IEEE Symposium on Reliable Distributed Systems*, pages 119–128, Seattle, USA, October 1989.
- [2] Christine Morin. A fault-tolerant implementation of CSP input-output commands. In *Proc. of The Fourth International Conference on Fault-tolerant Computing Systems*, pages 150–162, Baden-Baden, Germany, September 1989.
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- [4] Christine Morin. Building a reliable communication system using high speed stable storage. In *Proc of the 5th International Symposium on Computer and Information Sciences*, pages 471–480, Cappadocia, Turkey, November 1990.
- [5] Alain Gefflaut, Christine Morin, and Michel Banâtre. Tolerating node failures in cache only memory architectures. In *Proc. of Supercomputing'94*, pages 498–507, Washington, DC, USA, November 1994.
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- [7] Christine Morin, Alain Gefflaut, Michel Banâtre, and Anne-Marie Kermarrec. COMA : an opportunity for building fault-tolerant scalable shared memory multiprocessors. In *Proceedings of the 23rd international Symposium on Computer Architectures*, pages 56–65, Philadelphia, USA, May 1996.
- [8] A. Sahai, Christine Morin, and S. Billiard. Intelligent agents for a mobile network manager (MNM). In *Proceedings of the IFIP/IEEE International Conference on Intelligent Networks and Intelligence in Networks (2IN'97)*, pages 449–463, September 1997.

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- [14] A. Sahai and Christine Morin. Towards distributed and dynamic network management. In *Proceedings of the IEEE/IFIP Network Operation and Management Symposium (NOMS)*, pages 455–464, New Orleans, Louisiana, USA, February 1998.
- [15] Renaud Lottiaux, Christine Morin, and Thierry Priol. File mapping in shared virtual memory using a parallel file system. In *Parallel Computing : Fundamentals and Applications Proceedings of the International Conference (ParCo '99)*, pages 606–614, Delft, The Netherlands, August 1999.
- [16] A. Sahai and Christine Morin. Mobile agents for location independent computing. In *Proceedings of ACM Symposium on Applied Computing*, pages 408–409, San Antonio, TX, USA, March 1999.
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- [19] Renaud Lottiaux and Christine Morin. Containers : A sound basis for a true single system image. In *Proceeding of IEEE International Symposium on Cluster Computing and the Grid (CCGrid '01)*, pages 66–73, Brisbane, Australia, May 2001.
- [20] Christine Morin, Pascal Gallard, Renaud Lottiaux, and Geoffroy Vallée. Towards an efficient single system image cluster operating system. In *Proc. of International Conference on Architecture and Algorithms for Parallel Processing (ICA3PP 2002)*, pages 370–377, Beijing, China, October 2002. IEEE Computer Society.
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- [23] Christine Morin, Renaud Lottiaux, Geoffroy Vallée, Pascal Gallard, Gaël Utard, Ramamurthy Badrinath, and Louis Rilling. Kerrighed : a single system image cluster operating system for high performance computing. In *Proc. of EuroPar 2003 : Parallel Processing*, volume 2790 of *LNCS*, pages 1291–1294. Springer Verlag, August 2003.
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- [36] Christine Morin. XtremOS : A grid operating system making your computer ready for participating in virtual organizations. In *ISORC '07 : Proceedings of the 10th IEEE International Symposium on Object and Component-Oriented Real-Time Distributed Computing*, pages 393–402, Santorini Island, Greece, May 2007. IEEE Computer Society.
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- [39] Adrien Lèbre, Renaud Lottiaux, Erich Focht, and Christine Morin. Reducing kernel development complexity in distributed environments. In *Euro-Par 2008*, LNCS, pages 576–586, Las Palmas de Gran Canaria, Canary Island, Spain, August 2008. Springer.
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- [43] Thomas Ropars and Christine Morin. Active Optimistic Message Logging for Reliable Execution of MPI Applications. In *15th International Euro-Par Conference*, Delft, The Netherlands, August 2009.
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- [9] Christine Morin and Renaud Lottiaux. Global and integrated memory and disk management in Gobelins system. In *Proc. of second Workshop on Parallel Computing for Irregular Applications (WPCIA-2)*, Toulouse, France, January 2000.
- [10] Christine Morin, Renaud Lottiaux, and Anne-Marie Kermarrec. A two-level checkpoint algorithm in a highly-available parallel single level store system. In *Proceeding of the workshop on Distributed Shared Memory on Clusters (held in conjunction with CCGrid-01)*, pages 514–520, Brisbane, Australia, May 2001.
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- [16] Geoffroy Vallée, Jean-Yves Berthou, Pascal Gallard, Renaud Lottiaux, David Margery, and Christine Morin. Kerrighed : a single system image providing high availability capabilities to applications. In *High Availability and Performance Computing Workshop 2004 (HAPCW04)*, Santa Fe, New Mexico, USA, October 2004. held in conjunction with LACSI 2004.
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- [24] Jérôme Gallard, Geoffroy Vallée, Adrien Lèbre, Christine Morin, Pascal Gallard, and Stephen Scott. Complementarity between virtualization and single system image technologies. In *Euro-Par 2008 Workshops - Parallel Processing : VHPC 2008, UNICORE 2008, HPPC 2008, SGS 2008, PROPER 2008, ROIA 2008, and DPA 2008*, Espagne Las Palmas de Gran Canaria, 2009.
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Articles in Journals (No Selection Process)

- [1] Michel Banâtre, Philippe Joubert, Christine Morin, Gilles Muller, Bruno Rochat, and Patrick. Sanchez. Stable transactional memories and fault tolerant architectures. *Operating System Review*, 25 :68–72, January 1991.
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- [1] Michel Banâtre and Christine Morin. Availability of large-scale shared memory multiprocessors : Architecture proposal and system problematic. In *Journées Jacques Cartier*, December 1994. Grenoble, France.
- [2] Christine Morin. Design and implementation of a single system image operating system for high performance computing on clusters. In *Proc. 7th Workshop on Distributed Computing*, Durango, Colorado, USA, March 2003. Invited paper. Electronic proceedings only.
- [3] Christine Morin, Yvon Jégou, Adrien Lèbre, Thierry Priol, Oscar David Sanchez, Haiyan Yu, Erica Yang, Brian Matthews, and Luis Pablo Prieto. A grid operating system providing native virtual organization support. In *E-Sciences 2007 conference*, Bangalore, India, December 2007. Poster.
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- [7] Oscar David Sanchez, Paulo Costa, Gregor Pipan, and Christine Morin. Opportunities and issues for EU research projects in open source software : the XtremOS approach. Qualipso Conference, January 2008.
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National Publications

Articles in Journals

- [1] Anne-Marie Kermarrec and Christine Morin. ICARE : une mémoire virtuelle partagée tolérante aux fautes et efficace. *Techniques et Sciences Informatiques*, 16(10) :1257–1282, dec 1997. Numéro thématique MPR’96.

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