

Publication List

Emmanuel Jeannot

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International Journals

- [1] Alexandre Denis, Emmanuel Jeannot, Philippe Swartvagher, and Samuel Thibault. Tracing task-based runtime systems: Feedbacks from the StarPU case. *Concurrency and Computation: Practice and Experience*, page 24, October 2023.
- [2] Emmanuel Jeannot and Richard Sartori. An introspection monitoring library to improve MPI communication time. *Journal of Supercomputing*, 79(10):10774–10795, July 2023.
- [3] Jannis Klinkenberg, Anara Kozhokanova, Christian Terboven, Clément Foyer, Brice Goglin, and Emmanuel Jeannot. H2M: Exploiting Heterogeneous Shared Memory Architectures. *Future Generation Computer Systems*, June 2023.
- [4] Alexandre Denis, Emmanuel Jeannot, and Philippe Swartvagher. Predicting Performance of Communications and Computations under Memory Contention in Distributed HPC Systems. *International Journal of Networking and Computing*, 13(1):30, January 2023.
- [5] Emmanuel Jeannot, Guillaume Pallez, and Nicolas Vidal. IO-aware Job-Scheduling: Exploiting the Impacts of Workload Characterizations to select the Mapping Strategy. *International Journal of High Performance Computing Applications*, pages 1–13, 2023.
- [6] Emmanuel Jeannot. Process mapping on any topology with TopoMatch. *Journal of Parallel and Distributed Computing*, 170:39–52, December 2022.
- [7] Alexandre Denis, Julien Jaeger, Emmanuel Jeannot, and Florian Reynier. A methodology for assessing computation/communication overlap of MPI nonblocking collectives. *Concurrency and Computation: Practice and Experience*, 34(22), October 2022.
- [8] Atsushi Hori, Emmanuel Jeannot, George Bosilca, Takahiro Ogura, Balazs Gerofi, Jie Yin, and Yutaka Ishikawa. An international survey on MPI users. *Parallel Comput.*, 108:102853, 2021.
- [9] Emmanuel Jeannot, Guillaume Pallez, and Nicolas Vidal. Scheduling periodic I/O access with bi-colored chains: models and algorithms. *Journal of Scheduling*, 2021.
- [10] Alexandre Denis, Julien Jaeger, Emmanuel Jeannot, Marc Pérache, and Hugo Taboada. Study on progress threads placement and dedicated cores for overlapping MPI nonblocking collectives on manycore processor. *The International Journal of High Performance Computing Applications*, 33(6):1240–1254, 2019.
- [11] Nicolas Denoyelle, Brice Goglin, Aleksandar Ilic, Emmanuel Jeannot, and Leonel Sousa. Modeling Non-Uniform Memory Access on Large Compute Nodes with the Cache-Aware Roofline Model. *IEEE Transactions on Parallel and Distributed Systems*, 30(6):1374–1389, 2019.

- [12] Brice Goglin, Emmanuel Jeannot, Farouk Mansouri, and Guillaume Mercier. Hardware topology management in MPI applications through hierarchical communicators. *Parallel Computing*, 76:70 – 90, 2018.
- [13] Emmanuel Jeannot, Yvan Fournier, and Benjamin Lorendeau. Experimenting task-based runtimes on a legacy Computational Fluid Dynamics code with unstructured meshes. *Computers & Fluids*, 173:51 – 58, 2018.
- [14] Yiannis Georgiou, Emmanuel Jeannot, Guillaume Mercier, and Adèle Villiermet. Topology-Aware Job Mapping. *The International Journal of High Performance Computing Applications*, 32(1):14–27, 2018.
- [15] Didem Unat, Anshu Dubey, Torsten Hoefler, John Shalf, Mark Abraham, Mauro Bianco, Bradford L. Chamberlain, Romain Cledat, H. Carter Edwards, Hal Finkel, Karl Fuerlinger, Frank Hannig, Emmanuel Jeannot, Amir Kamil, Jeff Keasler, Paul H J Kelly, Vitus Leung, Hatem Ltaief, Naoya Maruyama, Chris J. Newburn, and Miquel Pericàs. Trends in Data Locality Abstractions for HPC Systems. *IEEE Transactions on Parallel and Distributed Systems*, 28(10):3007–3020, 2017.
- [16] Louis-Claude Canon and Emmanuel Jeannot. Correlation-Aware Heuristics for Evaluating the Distribution of the Longest Path Length of a DAG with Random Weights. *IEEE Transactions on Parallel and Distributed Systems*, 27(11):3158–3171, November 2016.
- [17] Paul-Antoine Arras, Didier Fuin, Emmanuel Jeannot, Arthur Stouchinin, and Samuel Thibault. List Scheduling in Embedded Systems Under Memory Constraints. *International Journal of Parallel Programming*, 43(6):1103–1128, December 2015.
- [18] Emmanuel Jeannot, Guillaume Mercier, and François Tessier. Process Placement in Multicore Clusters: Algorithmic Issues and Practical Techniques. *IEEE Transactions on Parallel and Distributed Systems*, 25(4):993–1002, April 2014.
- [19] Emmanuel Jeannot. Symbolic Mapping and Allocation for the Cholesky Factorization on NUMA machines: Results and Optimizations. *International Journal of High Performance Computing Applications*, 27(3):283–290, 2013.
- [20] Emmanuel Jeannot, Erik Saule, and Denis Trystram. Optimizing performance and reliability on heterogeneous parallel systems: Approximation algorithms and heuristics. *J. Parallel Distrib. Comput.*, 72(2):268–280, 2012.
- [21] Anne Benoit, Louis-Claude Canon, Emmanuel Jeannot, and Yves Robert. Reliability of task graph schedules with transient and fail-stop failures: complexity and algorithms. *Journal of Scheduling*, 15(5):615–627, 2012.
- [22] Louis-Claude Canon, Olivier Dubuisson, Jens Gustedt, and Emmanuel Jeannot. Defining and controlling the heterogeneity of a cluster: the wreakovoc tool. *The Journal of Systems & Software*, Elsevier, 83(5):786–802, May 2010.
- [23] Louis-Claude Canon and Emmanuel Jeannot. Evaluation and Optimization of the Robustness of DAG Schedules in Heterogeneous Environments. *IEEE Transactions on Parallel and Distributed Systems*, 21(4):532–546, April 2010.
- [24] Stéphane Genaud, Emmanuel Jeannot, and Choopan Rattanapoka. Fault Management in P2P-MPI. *International Journal of Parallel Programming*, 37(5):433–461, October 2009.
- [25] Jens Gustedt, Emmanuel Jeannot, and Martin Quinson. Experimental Methodologies for Large-Scale Systems: a Survey. *Parallel Processing Letter*, 19(3):399–418, September 2009.

- [26] Emmanuel Jeannot, Keith Seymour, Asym Yarkhan, and Jack J. Dongarra. Improved Runtime and Transfer Time Prediction Mechanisms in a Network Enabled Servers Middleware. *Parallel Processing Letters*, 17(1):47–59, March 2007.
- [27] Raph l Bolze, Franck Cappello, Eddy Caron, Michel Dayd , Fr d ric Despres, Emmanuel Jeannot, Yvon J gou, Stephane Lanteri, Julien Leduc, Noredine Melab, Guillaume Mornet, Raymond Namyst, Pascale Primet, Benjamin Quetier, Olivier Richard, El-Ghazali Talbi, and Ir a Touche. Grid'5000: A Large Scale And Highly Reconfigurable Experimental Grid Testbed. *International Journal of High Performance Computing Applications*, 20(4):481–494, November 2006.
- [28] E. Jeannot and F. Wagner. Scheduling messages for data redistribution: an experimental study. *International Journal of High Performance Computing Applications*, 20(4):443–454, November 2006.
- [29] J. Cohen, E. Jeannot, N. Padov, and F. Wagner. Message Scheduling for Parallel Data Redistribution between Clusters. *IEEE Transactions on Parallel and Distributed Systems*, 17(10):1163–1175, October 2006.
- [30] V. Berten, J. Goossens, and E. Jeannot. On the Distribution of Sequential Jobs in Random Brokering For Heterogeneous Computational Grids. *IEEE Transactions on Parallel and Distributed Systems*, 17(2):113–124, 2006.
- [31] Y. Caniou and E. Jeannot. Multi-Criteria Scheduling Heuristics for GridRPC Systems. *International Journal of High Performance Computing Applications*, 20(1):61–76, spring 2006.
- [32] E. Caron, B. Del-Fabbro, F. Despres, E. Jeannot, and J.-M. Nicod. Managing data persistence in network enabled servers. *Scientific Programming Journal*, 13(4):333–354, 2005.
- [33] C. Germain, V. Breton, P. Clarysse, Y. Gaudeau, T. Glatard, E. Jeannot, Y. Legr , C. Loomis, I. Magnin, J. Montagnat, J.-M. Moureaux, A. Osorio, X. Pennec, and R. Texier. Grid-Enabling Medical Image Analysis. *Journal of Clinical Monitoring and Computing*, 19(4–5):339–349, October 2005.
- [34] Michel Cosnard, Emmanuel Jeannot, and Tao Yang. Compact Dag Representation and its Symbolic Scheduling. *Journal of Parallel and Distributed Computing*, 64(8):921 – 935, August 2004.
- [35] E. Caron, S. Chaumette, S. Contassot-Vivier, F. Despres, E. Fleury, C. Gomez, M. Goursat, E. Jeannot, D. Lasure, F. Lombard, J.M. Nicod, L. Philippe, M. Quinson, P. Ramet, J. Roman, F. Rubi, S. Steer, F. Suter, and G. Utard. Scilab to Scilab_{//}, the OURAGAN Project. *Parallel Computing*, 27(11), 2001.
- [36] M. Cosnard and E. Jeannot. Automatic Parallelization Techniques Based on Compact DAG Extraction and Symbolic Scheduling. *Parallel Processing Letters*, 11(1):151–168, 2001.
- [37] M. Cosnard and E. Jeannot. Compact DAG Representation and Its Dynamic Scheduling. *Journal of Parallel and Distributed Computing*, 58(3):487–514, September 1999.

Book

- [38] Jes s Carretero, Emmanuel Jeannot, and Albert Y. Zomaya, editors. *Ultrascale Computing Systems*. IET, 2019.
- [39] Emmanuel Jeannot and Julius  ilinskas, editors. *High Performance Computing on Complex Environments*. Wiley, June 2014.

International conferences with proceeding and program committee

- [40] Jesús Carretero, Javier García-Blas, Marco Aldinucci, Jean-Baptiste Besnard, Jean-Thomas Acquaviva, André Brinkmann, Marc-André Vef, Emmanuel Jeannot, Alberto Miranda, Ramon Nou, Morris Riedel, Massimo Torquati, and Felix Wolf. Adaptive multi-tier intelligent data manager for exascale. In Andrea Bartolini, Kristian F. D. Rietveld, Catherine D. Schuman, and Jose Moreira, editors, *Proceedings of the 20th ACM International Conference on Computing Frontiers, CF 2023, Bologna, Italy, May 9-11, 2023*, pages 285–290. ACM, 2023.
- [41] Jean-Baptiste Besnard, Ahmad Tarraf, Clément Barthélemy, Alberto Cascajo, Emmanuel Jeannot, Sameer Shende, and Felix Wolf. Towards Smarter Schedulers: Molding Jobs into the Right Shape via Monitoring and Modeling. In *HPCMAIL 2023 - 2nd International Workshop on Malleability Techniques Applications in High-Performance Computing*, Hamburg, Germany, May 2023.
- [42] Clément Gavoille, Hugo Taboada, Patrick Carribault, Fabrice Dupros, Brice Goglin, and Emmanuel Jeannot. Relative performance projection on arm architectures. In José Cano and Phil Trinder, editors, *Euro-Par 2022: Parallel Processing - 28th International Conference on Parallel and Distributed Computing, Glasgow, UK, August 22-26, 2022, Proceedings*, volume 13440 of *Lecture Notes in Computer Science*, pages 85–99. Springer, 2022.
- [43] Alexandre Denis, Emmanuel Jeannot, and Philippe Swartvagher. Modeling Memory Contention between Communications and Computations in Distributed HPC Systems. In *24th Workshop on Advances in Parallel and Distributed Computational Models (APDCM22) in conjunction with IEEE International Parallel and Distributed Processing Symposium (IPDPS 2022)*, page 10, Lyon / Virtual, France, May 2022.
- [44] Alexandre Denis, Julien Jaeger, Emmanuel Jeannot, and Florian Reynier. One core dedicated to MPI nonblocking communication progression? A model to assess whether it is worth it. In *22nd IEEE International Symposium on Cluster, Cloud and Internet Computing, CCGrid 2022, Taormina, Italy, May 16-19, 2022*, pages 736–746. IEEE, 2022.
- [45] Nicolas Denoyelle, Swann Perarnau, Brice Videau, Pete Beckman, and Emmanuel Jeannot. Narrowing the search space of applications mapping on hierarchical topologies. In *2021 International Workshop on Performance Modeling, Benchmarking and Simulation of High Performance Computer Systems (PMBS 2021), St. Louis, MO, USA, November 15, 2021*, pages 118–128. IEEE, 2021.
- [46] Nathan Grinsztajn, Olivier Beaumont, Emmanuel Jeannot, and Philippe Preux. READYS: A Reinforcement Learning Based Strategy for Heterogeneous Dynamic Scheduling. In *IEEE Cluster 2021*, Portland, United States, September 2021.
- [47] Alexandre Denis, Emmanuel Jeannot, and Philippe Swartvagher. Interferences between Communications and Computations in Distributed HPC Systems. In *ICPP 2021 - 50th International Conference on Parallel Processing*, Chicago / Virtual, United States, August 2021.
- [48] Alexandre Denis, Emmanuel Jeannot, Philippe Swartvagher, and Samuel Thibault. Using Dynamic Broadcasts to improve Task-Based Runtime Performances. In *Euro-Par'20 - 26th International European Conference on Parallel and Distributed Computing*, Euro-Par 2020, Warsaw, Poland, August 2020. Held virtually.
- [49] Nathan Grinsztajn, Olivier Beaumont, Emmanuel Jeannot, and Philippe Preux. Geometric deep reinforcement learning for dynamic DAG scheduling. In *2020 IEEE Symposium Series on Compu-*

tational Intelligence, SSCI 2020, Canberra, Australia, December 1-4, 2020, pages 258–265. IEEE, 2020.

- [50] Jesus Carretero, Emmanuel Jeannot, Guillaume Pallez, David E Singh, and Nicolas Vidal. Mapping and Scheduling HPC Applications for Optimizing I/O. In *ICS2020 - 34th ACM International Conference on Supercomputing*, Barcelona, Spain, June 2020. Held virtually.
- [51] Emmanuel Jeannot and Richard Sartori. Improving MPI Application Communication Time with an Introspection Monitoring Library. In *21st IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC 2020), in conjunction with IPDPS*, page 10, New Orleans, USA, May 2020. Held virtually.
- [52] Shu-Mei Tseng, Bogdan Nicolae, George Bosilca, Emmanuel Jeannot, Aparna Chandramowlishwaran, and Franck Cappello. Towards Portable Online Prediction of Network Utilization using MPI-level Monitoring. In *EuroPar'19: 25th International European Conference on Parallel and Distributed Systems*, Goettingen, Germany, August 2019.
- [53] Nicolas Denoyelle, Brice Goglin, Emmanuel Jeannot, and Thomas Ropars. Data and Thread Placement in NUMA Architectures: A Statistical Learning Approach. In *ICPP 2019 - 48th International Conference on Parallel Processing*, Kyoto, Japan, August 2019.
- [54] Alexandre Denis, Julien Jaeger, Emmanuel Jeannot, Marc Pérache, and Hugo Taboada. Dynamic placement of progress thread for overlapping MPI non-blocking collectives on manycore processor. In *Euro-Par 2018 24th International Conference on Parallel and Distributed Computing, Turin, Italy, August 27-31, 2018*, volume 11014 of *Lecture Notes in Computer Science*, pages 616–627. Springer, 2018.
- [55] Cyril Bordage and Emmanuel Jeannot. Process Affinity, Metrics and Impact on Performance: an Empirical Study. In *18th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid)*, page 11, May 2018.
- [56] Nicolas Denoyelle, Brice Goglin, Aleksandar Ilic, Emmanuel Jeannot, and Leonel Sousa. Modeling Large Compute Nodes with Heterogeneous Memories with Cache-Aware Roofline Model. In *High Performance Computing Systems. Performance Modeling, Benchmarking, and Simulation - 8th International Workshop, PMBS 2017, Denver, CO, USA, November 13, 2017, Proceedings*, volume 10724 of *Lecture Notes in Computer Science*, pages 91–113. Springer, 2017.
- [57] Farouk Mansouri Emmanuel Jeannot and Guillaume Mercier. A Hierarchical Model to Manage Hardware Topology in MPI Applications. In *Proceedings of the 24th European MPI Users' Group Meeting, EuroMPI/USA*, pages 9:1–9:11, Chicago, USA, September 2017. ACM.
- [58] François Tessier, Venkatram Vishwanath, and Emmanuel Jeannot. TAPIOCA: An I/O Library for Optimized Topology-Aware Data Aggregation on Large-Scale Supercomputers. In *2017 IEEE International Conference on Cluster Computing, CLUSTER*, pages 70–80, Hawaii, USA, September 2017.
- [59] Emmanuel Jeannot Jens Gustedt and Farouk Mansouri. Automatic, Abstracted and Portable Topology-Aware Thread Placement. In *2017 IEEE International Conference on Cluster Computing, CLUSTER*, pages 389–399, Hawaii, USA, September 2017.
- [60] George Bosilca, Clément Foyer, Emmanuel Jeannot, Guillaume Mercier, and Guillaume Papaure. Online Dynamic Monitoring of MPI Communications. In Springer, editor, *Euro-Par 2017: Parallel*

Processing - 23rd International Conference on Parallel and Distributed Computing, volume 10417 of *LNCS*, pages 49–62, Santiago de Compostela, Spain, August 2017.

- [61] Yiannis Georgiou, Emmanuel Jeannot, Guillaume Mercier, and Adèle Villiermet. Topology-aware resource management for HPC applications. In *ICDCN 2017*, Hyderabad, India, January 2017.
- [62] François Tessier, Preeti Malakar, Venkatram Vishwanath, Emmanuel Jeannot, and Florin Isaila. Topology-Aware Data Aggregation for Intensive I/O on Large-Scale Supercomputers. In *1st Workshop on Optimization of Communication in HPC runtime systems (IEEE COM-HPC16)*, Salt-Lake City, United States, November 2016. IEEE.
- [63] Emmanuel Jeannot, Guillaume Mercier, and François Tessier. Topology and affinity aware hierarchical and distributed load-balancing in Charm++. In *1st Workshop on Optimization of Communication in HPC runtime systems (IEEE COM-HPC16)*, Salt-Lake City, United States, November 2016.
- [64] Iván Cores, Patricia Gonzalez, Emmanuel Jeannot, María J. Martín, and Gabriel Rodriguez. An application-level solution for the dynamic reconfiguration of mpi applications. In *12th International Meeting on High Performance Computing for Computational Science (VECPAR 2016)*, Porto, Portugal, June 2016.
- [65] Paul-Antoine Arras, Didier Fuin, Emmanuel Jeannot, and Samuel Thibault. DKPN: A Composite Dataflow/Kahn Process Networks Execution Model. In *24th Euromicro International Conference on Parallel, Distributed and Network-based processing*, Heraklion Crete, Greece, February 2016.
- [66] Nicolas Denoyelle, Brice Goglin, and Emmanuel Jeannot. A Topology-Aware Performance Monitoring Tool for Shared Resource Management in Multicore Systems. In Springer, editor, *Proceedings of Euro-Par 2015 – Parallel Processing Workshops: 3rd Workshop on Runtime and Operating Systems for the Many-core Era (ROME)*, Lecture Notes in Computer Science, Vienna, Austria, August 2015.
- [67] Denis Barthou and Emmanuel Jeannot. Spaghetti: Scheduling/placement approach for task-graphs on heterogeneous architecture. In Fernando Silva, Inês Dutra, and Vítor Santos Costa, editors, *Euro-Par 2014 Parallel Processing*, volume 8632 of *Lecture Notes in Computer Science*, pages 174–185, Porto, Portugal, 2014. Springer International Publishing.
- [68] Paul-Antoine Arras, Didier Fuin, Emmanuel Jeannot, Arthur Stouchinin, and Samuel Thibault. List scheduling in embedded systems under memory constraints. In *The 25th International Symposium on Computer Architecture and High Performance Computing (SBAC-PAD 2013)*, page 8, Porto de Galhinas, Brazil, October 2013.
- [69] Emmanuel Jeannot, Esteban Meneses, Guillaume Mercier, François Tessier, and Gengbin Zheng. Communication and topology-aware load balancing in charm++ with treematch. In *IEEE Cluster*, page 8, Indianapolis, IN, USA, September 2013.
- [70] Emmanuel Jeannot. Performance Analysis and Optimization of the Tiled Cholesky Factorization on NUMA Machines. In *5th International Symposium on Parallel Architectures, Algorithms and Programming (PAAP'12)*, IEEE, pages 210–217, Taipei, Taiwan, December 2012.
- [71] Guillaume Mercier and Emmanuel Jeannot. Improving mpi applications performance on multicore clusters with rank reordering. In *Proceedings of the 16th International EuroMPI Conference*, LNCS 6960, pages 39–49, Santorini, Greece, September 2011. Springer Verlag.

- [72] Louis-Claude Canon, Emmanuel Jeannot, and Jon Weissman. A scheduling and certification algorithm for defeating collusion in desktop grids. In *31st International Conference on Distributed Computing Systems (ICDCS 2011)*, page 10, Minneapolis, MN, USA, June 2011.
- [73] Sangho Yi, Emmanuel Jeannot, Derrick Kondo, and David P. Anderson. Towards real-time, volunteer distributed computing. In *11th IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing (CCGrid 2011)*, page 10, Newport Beach, CA, USA, May 2011.
- [74] Louis-Claude Canon and Emmanuel Jeannot. Mo-greedy: an extended beam-search approach for solving a multi-criteria scheduling problem on heterogeneous machines. In *20th International Heterogeneity in Computing Workshop (HCW 2011), in coordination with IPDPS*, page 15, Anchorage, Alaska, USA, May 2011.
- [75] Emmanuel Jeannot and Guillaume Mercier. Near-optimal placement of MPI processes on hierarchical NUMA architecture. In *Euro-Par*, Ischia, Italy, August 2010.
- [76] Louis-Claude Canon, Emmanuel Jeannot, and Jon Weissman. A Dynamic Approach for Characterizing Collusion in Desktop Grids. In *Proceedings of 24rd IEEE International Parallel and Distributed Processing Symposium (IPDPS'10)*, Atlanta, GA, April 2010. IEEE Computer Society Press.
- [77] Vandy Berten and Emmanuel Jeannot. Modeling resubmission in unreliable grids: the bottom-up approach. In *Euro-Par 2009, Parallel Processing - Workshops*, volume 6043 of *LNCS*, pages 150–161, Delft, The Netherlands, August 2009. Heteropar Workshop.
- [78] Olivier Dubuisson, Jens Gustedt, and Emmanuel Jeannot. Validating Wrekavoc: a Tool for Heterogeneity Emulation. In *Proceedings of the 18th International Heterogeneity in Computing Workshop (HCW'09)*, Rome, Italy, May 2009. IEEE.
- [79] Emmanuel Jeannot, Erik Saule, and Denis Trystram. Bi-Objective Approximation Scheme for Makespan and Reliability Optimization on Uniform Parallel Machines. In *The 14th International Euro-Par Conference on Parallel and Distributed Computing (Euro-Par 2008)*, Las Palmas de Gran Canaria, Spain, August 2008.
- [80] Louis-Claude Canon and Emmanuel Jeannot. Scheduling Strategies for the Bicriteria Optimization of the Robustness and Makespan. In *11th International Workshop on Nature Inspired Distributed Computing (NIDISC 2008)*, Miami, Floride, USA, April 2008.
- [81] Emmanuel Jeannot. Experimental Validation of Grid Algorithms: a Comparison of Methodologies. In *Fifth High-Performance Grid Computing Workshop (HPGC'08), in conjunction with IPDPS 2008*, page 8, Miami, FL, USA, April 2008. Invited article.
- [82] Louis-Claude Canon, Emmanuel Jeannot, Rizos Sakellariou, and Wei Zheng. Comparative Evaluation of the Robustness of DAG Scheduling Heuristics. In Sergei Gorlatch, Paraskevi Fragopoulou, and Thierry Priol, editors, *Integration Research in Grid Computing, CoreGRID integration workshop*, pages 63–74, Hersonissos, Crete, Greece, April 2008. Crete University Press.
- [83] L.-C. Canon and E. Jeannot. A Comparison of Robustness Metrics for Scheduling DAGs on Heterogeneous Systems. In *Sixth International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Networks (HeteroPar'07), in conjunction with The 2007 IEEE International Conference on Cluster Computing (cluster 2007)*, pages 568–567, Austin, Texas, September 2007.

- [84] E. Jeannot and Luiz-Angelo Steffenel. Fast and Efficient Total Exchange on Two Clusters. In *the 13th International Euro-Par Conference*, volume 4641 of *LNCS*, pages 848–857, Rennes, France, August 2007. Springer Verlag.
- [85] Luiz-Angelo Steffenel and E. Jeannot. Total Exchange Performance Prediction on Grid Environments: modeling and algorithmic issues. In *the CoreGRID Symposium (CoreGRID'07)*, pages 131–140, Rennes, France, August 2007.
- [86] Jack J. Dongarra, Emmanuel Jeannot, Erik Saule, and Zhiao Shi. Bi-objective Scheduling Algorithms for Optimizing Makespan and Reliability on Heterogeneous Systems. In *19th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA'07)*, San Diego, CA, USA, June 2007.
- [87] Z. Shi, E. Jeannot, and J. J. Dongarra. Robust Task Scheduling in Non-Deterministic Heterogeneous Systems. In *Proceedings of IEEE International Conference on Cluster Computing*, Barcelona, Spain, October 2006. IEEE.
- [88] E. Jeannot and F. Vernier. A Practical Approach of Diffusion Load Balancing Algorithm. In *12th International Euro-Par Conference*, volume 4128 of *LNCS*, pages 211–221, Dresden, Germany, August 2006. Springer Verlag.
- [89] V. Berten, J. Goossens, and E. Jeannot. A Probabilistic Approach for Fault Tolerant Multiprocessor Real-time Scheduling. In *14th Workshop on Parallel and Distributed Real-Time Systems*, Island of Rhodes, Greece, April 2006.
- [90] L.-C. Canon and E. Jeannot. Wrekavoc a Tool for Emulating Heterogeneity. In *15th IEEE Heterogeneous Computing Workshop (HCW'06)*, Island of Rhodes, Greece, April 2006.
- [91] E. Jeannot and F. Wagner. Modeling, Predicting and Optimizing Redistribution between Clusters on Low Latency Networks. In *The First International Symposium on Frontiers in Networking with Applications (FINA 2006)*, Vienna, Austria, April 2006. IEEE.
- [92] E. Jeannot and F. Wagner. Messages Scheduling for Data Redistribution between Heterogeneous Clusters. In *IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2005)*, Phoenix, AZ, USA, November 2005.
- [93] Franck Cappello, Eddy Caron, Michel Dayde, Frédéric Despres, Yvon Jegou, Pascale Primet, Emmanuel Jeannot, Stephane Lanteri, Julien Leduc, Nouredine Melab, Guillaume Mornet, Raymond Namyst, Benjamin Quetier, and Olivier Richard. Grid’5000: a large scale, reconfigurable, controllable and monitorable Grid platform. In *6th IEEE/ACM International Workshop on Grid Computing (GRID 2005)*, pages 99–106, Seattle, WA, USA, November 2005.
- [94] E. Jeannot. Improving Middleware Performance with AdOC: an Adaptive Online Compression Library for Data Transfer. In *International Parallel and Distributed Processing Symposium 2005 (IPDPS’05)*, Denver, Colorado, USA, April 2005.
- [95] E. Jeannot and G. Monard. Computing Molecular Potential Energy Surface with DIET. In *International Conference on Information Technology (ITCC2005)*, pages 286 – 291, Las-Vegas, Nevada, USA, April 2005.
- [96] C. Germain, V. Breton, P. Clarysse, Y. Gaudeau, T. Glatard, E. Jeannot, Y. Legré, C. Loomis, J. Montagnat, J.-M. Moureaux, A. Osorio, X. Pennec, and R. Texier. Grid-Enabling Medical Image Analysis. In *Third International Workshop on Biomedical Computations on the Grid (Bio-Grid 2005)*, Cardiff, UK, May 2005.

- [97] Y. Caniou and E. Jeannot. Experimental Study of Multi-Criteria Scheduling Heuristics for GridRPC Systems. In *ACM-IFIP Euro-Par*, Pisa, Italy, September 2004.
- [98] F. Desprez and E. Jeannot. Improving the GridRPC Model with Data Persistence and Redistribution. In *3rd International Symposium on Parallel and Distributed Computing (ISPDC)*, Cork, Ireland, July 2004.
- [99] Y. Caniou and E. Jeannot. Efficient Scheduling Heuristics for GridRPC Systems. In *QOS and Dynamic System workshop of IEEE ICPADS (International Conference on Parallel and Distributed Systems) conference*, pages 621 – 630, New-Port Beach, California, July 2004.
- [100] E. Jeannot and F. Wagner. Two Fast and Efficient Message Scheduling Algorithms for Data Redistribution through a Backbone. In *IEEE International Conference on Parallel and Distributed Processing Symposium (IPDPS)*, Santa-Fe, New-Mexico, USA, April 2004.
- [101] Johanne Cohen, Emmanuel Jeannot, and Nicolas Padoy. Messages Scheduling for Data Redistribution between Clusters. In *Algorithms, models and tools for parallel computing on heterogeneous networks (HeteroPar'03) workshop of SIAM PPAM 2003, LNCS 3019*, pages 896–906, Czestochowa, Poland, September 2003.
- [102] Y. Caniou and E. Jeannot. New Scheduling Heuristics in the Client-Agent-Server Model. In *IEEE Heterogeneous Computing Workshop (HCW'03)*, Nice, France, April 2003.
- [103] E. Jeannot, B. Knutsson, and M Björkman. Adaptive Online Data Compression. In *IEEE High Performance Distributed Computing (HPDC'11)*, pages 379 – 388, Edinburgh, Scotland, July 2002.
- [104] B. Cirou and E. Jeannot. Triplet: a Clustering Scheduling Algorithm for Heterogeneous Systems. In *IEEE ICPP International Workshop on Metacomputing Systems and Applications (MSA'2001)*, Valencia, Spain, September 2001.
- [105] E. Jeannot. Automatic multithreaded parallel program generation for message passing multiprocessors using parameterized task graphs. In *International Conference 'Parallel Computing 2001' (ParCo2001)*, Naples, Italy, September 2001.
- [106] M. Cosnard, E. Jeannot, and T. Yang. SLC: Symbolic Scheduling for Executing Parameterized Task Graphs on Multiprocessors. In *International Conference on Parallel Processing (ICPP'99)*, Aizu Wakamatsu, Japan, September 1999.
- [107] M. Cosnard, E. Jeannot, and T. Yang. Symbolic Partitionning and Scheduling of Parameterized Task Graphs. In *IEEE International Conference on Parallel and Distributed Systems (ICPADS'98)*, Tainan, Taiwan, December 1998.
- [108] M. Cosnard, E. Jeannot, and L. Rougeot. Low Memory Cost Dynamic Scheduling of Large Coarse Grain Task Graphs. In *IEEE International Parallel Processing Symposium (IPPS'98)*, Orlando, Florida, April 1998. IEEE.
- [109] M. Cosnard and E. Jeannot. Automatic Coarse-Grained Parallelization Techniques. In Grandinetti and Kowalik, editor, *NATO workshop: Advances in High Performance Computing*. Kluwer academic Publishers, 1997.

Special Issue Editorial

- [110] Pete Beckman, Emmanuel Jeannot, and Swann Perarnau. Workshop on resource arbitration for dynamic runtimes (RADR). In *IEEE International Parallel and Distributed Processing Symposium, IPDPS Workshops 2022, Lyon, France, May 30 - June 3, 2022*, pages 1011–1013. IEEE, 2022.

- [111] Peter H. Beckman, Emmanuel Jeannot, and Swann Perarnau. Workshop on resource arbitration for dynamic runtimes (RADR). In *2020 IEEE International Parallel and Distributed Processing Symposium Workshops, IPDPSW 2020, New Orleans, LA, USA, May 18-22, 2020*, pages 947–949. IEEE, 2020.
- [112] Peter H. Beckman, Emmanuel Jeannot, and Swann Perarnau. Introduction to RADR 2019. In *IEEE International Parallel and Distributed Processing Symposium Workshops, IPDPSW 2019, Rio de Janeiro, Brazil, May 20-24, 2019*, pages 908–910. IEEE, 2019.
- [113] Jorge Barbosa and Emmanuel Jeannot. Foreword to the Special Issue of the Twenty Sixth International Heterogeneity in Computing Workshop (HCW) and to the Fifteenth International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms (HeteroPar). *Concurrency and Computation: Practice and Experience*, page 2, 2018. Editorial.
- [114] Jesús Carretero, Raimondas Čiegis, Emmanuel Jeannot, Laurent Lefèvre, Gudula Rünger, Domenico Talia, and Žilinskas Julius. HeteroPar 2014, APCIE 2014, and TASUS 2014 Special Issue. *Concurrency and Computation: Practice and Experience*, page 2, 2016. Editorial.

Online Journal

- [115] Leo Ghemtio, Emmanuel Jeannot, and Bernard Maigret. Efficiency of a hierarchical protocol for high throughput structure-based virtual screening on grid5000 cluster grid. *Open Access Bioinformatic*, 2010(2):41–53, May 2010. <http://www.dovepress.com/efficiency-of-a-hierarchical-protocol-for-high-throughput-structure-based-peer-reviewed-article-OAB>.

Book chapters

- [116] Georges Da Costa, Alexey L. Lastovetsky, Jorge G. Barbosa, Juan Carlos Díaz Martín, Juan-Luis García Zapata, Matthias Janetschek, Emmanuel Jeannot, João Leitão, Ravi Reddy Manumachu, Radu Prodan, Juan A. Rico-Gallego, Peter Van Roy, Ali Shoker, and Albert van der Linde. Programming models and runtimes. In Jesús Carretero, Emmanuel Jeannot, and Albert Y. Zomaya, editors, *Ultrascale Computing Systems*, pages 9–63. IET, 2019.
- [117] Emmanuel Jeannot and Jesús Carretero. Conclusion. In Jesús Carretero, Emmanuel Jeannot, and Albert Y. Zomaya, editors, *Ultrascale Computing Systems*, pages 245–248. IET, 2019.
- [118] Pascal Bouvry, Ghislain Landry Tsafack Chetsa, Georges Da Costa, Emmanuel Jeannot, Laurent Lefèvre, Jean-Marc Pierson, Frederic Pinel, Patricia Stolf, and Sébastien Varrette. Energy efficiency and high-performance computing. In *Large-scale Distributed Systems and Energy efficiency*. Wiley, 2015.
- [119] Torsten Hoefer, Emmanuel Jeannot, and Guillaume Mercier. Chapter 5: An overview of process mapping techniques and algorithms in high-performance computing. In Emmanuel Jeannot and Julius Žilinskas, editors, *High Performance Computing on Complex Environments*, pages 75–94. Wiley, 2014.
- [120] Daniel Balouek, Alexandra Carpen Amarie, Ghislain Charrier, Frédéric Despres, Emmanuel Jeannot, Emmanuel Jeanvoine, Adrien Lèbre, David Margery, Nicolas Niclausse, Lucas Nussbaum, Olivier Richard, Christian Perez, Flavien Quesnel, Cyril Rohr, and Luc Sarzyniec. Adding virtualization capabilities to the grid'5000 testbed. In Ivan I. Ivanov, Marten Sinderen, Frank Leymann, and Tony Shan, editors, *Cloud Computing and Services Science*, volume 367 of *Communications in Computer and Information Science*, pages 3–20. Springer International Publishing, 2013.

- [121] Cécile Germain-Renaud, Vincent Breton, Patrick Clarysse, Bertrand Delhay, Yann Gaudéau, Tristan Glatard, Emmanuel Jeannot, Yannick Legré, Johan Montagnat, Jean Marie Moureaux, Angel Osorio, Xavier Pennec, Joël Schaerer, and Romain Texier. Grid analysis of radiological data. In Mario Cannataro, editor, *Handbook of Research on Computational Grid Technologies for Life Sciences, Biomedicine and Healthcare*. Information Science Reference, 2008.
- [122] Michel Cosnard, Emmanuel Jeannot, and Tao Yang. Symbolic Scheduling of Parameterized Task Graphs on Parallel Machines. In Leonidas S. Pitsoulis and Panos M. Pardalos, editors, *Nonlinear Assignment Problems: Algorithms and Applications*. Kluwer Academic Publishers, November 2000. ISBN 0-7923-6646-8.

Proceedings edited

- [123] Ulrich Schwardmann, Christian Boehme, Dora B. Heras, Valeria Cardellini, Emmanuel Jeannot, Antonio Salis, Claudio Schifanella, Ravi Reddy Manumachu, Dieter Schwamborn, Laura Ricci, Oh Sangyoon, Thomas Gruber, Laura Antonelli, and Stephen L. Scott, editors. *Euro-Par 2019 International Workshops, Göttingen, Germany, August 26-30, 2019, Revised Selected Papers*, volume 11997 of *Lecture Notes in Computer Science*. Springer, 2020.
- [124] Gabriele Mencagli, Dora B. Heras, Valeria Cardellini, Emiliano Casalicchio, Emmanuel Jeannot, Felix Wolf, Antonio Salis, Claudio Schifanella, Ravi Reddy Manumachu, Laura Ricci, Marco Beccuti, Laura Antonelli, José Daniel García Sánchez, and Stephen L. Scott, editors. *Euro-Par 2018: Parallel Processing Workshops - Euro-Par 2018 International Workshops, Turin, Italy, August 27-28, 2018, Revised Selected Papers*, volume 11339 of *Lecture Notes in Computer Science*. Springer, 2019.
- [125] Dora Blanca Heras, Luc Bougé, Gabriele Mencagli, Emmanuel Jeannot, Rizos Sakellariou, Rosa M. Badia, Jorge G. Barbosa, Laura Ricci, Stephen L. Scott, Stefan Lankes, and Josef Weidendorfer, editors. *Euro-Par 2017: Parallel Processing Workshops - Euro-Par 2017 International Workshops, Santiago de Compostela, Spain, August 28-29, 2017, Revised Selected Papers*, volume 10659 of *Lecture Notes in Computer Science*. Springer, 2018.
- [126] Jack Dongarra, Alexandre Denis, Brice Goglin, Emmanuel Jeannot, and Guillaume Mercier, editors. *Proceedings of the 22nd European MPI Users' Group Meeting*, Bordeaux, France, September 2015. Inria Bordeaux Sud-Ouest and Bordeaux INP, ACM.
- [127] L. Lopes, J. Žilinskas, A. Costan, R.G. Cascella, G. Kecskemeti, E. Jeannnot, M. Cannataro, L. Ricci, S. Benkner, S. Petit, V. Scarano, J. Gracia, S. Hunold, S.L. Scott, S. Lankes, C. Lengauer, J. Carretero, J. Breitbart, and M. Alexander, editors. *Euro-Par 2014 International Workshops, Porto, Portugal, August 25-26, 2014, Revised Selected Papers, Part II*, volume 8806 of *Lecture Notes in Computer Science*. Springer, 2015.
- [128] L. Lopes, J. Žilinskas, A. Costan, R.G. Cascella, G. Kecskemeti, E. Jeannnot, M. Cannataro, L. Ricci, S. Benkner, S. Petit, V. Scarano, J. Gracia, S. Hunold, S.L. Scott, S. Lankes, C. Lengauer, J. Carretero, J. Breitbart, and M. Alexander, editors. *Euro-Par 2014 International Workshops, Porto, Portugal, August 25-26, 2014, Revised Selected Papers, Part I*, volume 8805 of *Lecture Notes in Computer Science*. Springer, 2015.
- [129] Emmanuel Jeannot, Raymond Namyst, and Jean Roman, editors. *Euro-Par 2011 Parallel Processing - 17th International Conference, Euro-Par 2011, Bordeaux, France, August 29 - September 2, 2011, Proceedings, Part I*, volume 6852 of *Lecture Notes in Computer Science*. Springer, 2011.

- [130] Emmanuel Jeannot, Raymond Namyst, and Jean Roman, editors. *Euro-Par 2011 Parallel Processing - 17th International Conference, Euro-Par 2011, Bordeaux, France, August 29 - September 2, 2011, Proceedings, Part II*, volume 6853 of *Lecture Notes in Computer Science*. Springer, 2011.
- [131] Michael Alexander, Pasqua D'Ambra, Adam Belloum, George Bosilca, Mario Cannataro, Marco Danelutto, Beniamino Di Martino, Michael Gerndt, Emmanuel Jeannot, Raymond Namyst, Jean Roman, Stephen L. Scott, Jesper Larsson Träff, Geoffroy Vallée, and Josef Weidendorfer, editors. *Euro-Par 2011: Parallel Processing Workshops - CCPI, CGWS, HeteroPar, HiBB, HPCVirt, HPPC, HPSS, MDGS, ProPer, Resilience, UCHPC, VHPC, Bordeaux, France, August 29 - September 2, 2011, Revised Selected Papers, Part I*, volume 7155 of *Lecture Notes in Computer Science*. Springer, 2012.
- [132] Michael Alexander, Pasqua D'Ambra, Adam Belloum, George Bosilca, Mario Cannataro, Marco Danelutto, Beniamino Di Martino, Michael Gerndt, Emmanuel Jeannot, Raymond Namyst, Jean Roman, Stephen L. Scott, Jesper Larsson Träff, Geoffroy Vallée, and Josef Weidendorfer, editors. *Euro-Par 2011: Parallel Processing Workshops - CCPI, CGWS, HeteroPar, HiBB, HPCVirt, HPPC, HPSS, MDGS, ProPer, Resilience, UCHPC, VHPC, Bordeaux, France, August 29 - September 2, 2011, Revised Selected Papers, Part II*, volume 7156 of *Lecture Notes in Computer Science*. Springer, 2012.

Proceedings in french

- [133] S. Vialle, J. Gustedt, and E. Jeannot, editors. *GridUSe-2004 : Ecole thématique sur la Globalisation des Ressources Informatiques et des Données : Utilisation et Services*. Supelec, June 2004.
- [134] J. Gustedt, E. Jeannot, J.-L. Pazat, and S. Vialle, editors. *École GRID 2002*. INRIA, December 2002. École thématique sur la globalisation des ressources et des données, Aussois, France.

International conference without proceeding, with program committee and posters

- [135] Jannis Klinkenberg, Anara Kozhokanova, Christian Terboven, Clément Foyer, Brice Goglin, and Emmanuel Jeannot. H2M: Towards Heuristics for Heterogeneous Memory. IEEE Cluster 2022 - 2022 IEEE International Conference on Cluster Computing, September 2022. Poster.
- [136] Atsushi Hori, George Bosilca, Emmanuel Jeannot, Takahiro Ogura, and Yutaka Ishikawa. Is Japanese HPC another Galapagos? - Interim Report of MPI International Survey -. In *Summer United Workshops on Parallel, Distributed and Cooperative Processing*, Kitami, Japan, July 2019.
- [137] Yvan Fournier, Emmanuel Jeannot, and Benjamin Lorendeau. Experiments with multi-level parallelism runtimes on a CFD code with unstructured meshes. In *ParCFD 2017 - 29th International Conference on Parallel Computational Fluid Dynamics*, Glasgow, United Kingdom, May 2017.
- [138] Jens Gustedt, Emmanuel Jeannot, and Farouk Mansouri. Optimizing Locality by Topology-aware Placement for a Task Based Programming Model. IEEE Cluster 2016 Conference, September 2016. Poster.
- [139] Nicolas Denoyelle, Aleksandar Ilic, Brice Goglin, Leonel Sousa, and Emmanuel Jeannot. Automatic Cache Aware Roofline Model Building and Validation Using Topology Detection. In *NESUS Third Action Workshop and Sixth Management Committee Meeting*, volume I, Sofia, Bulgaria, October 2016. Jesus Carretero.
- [140] Emmanuel Jeannot. Topology Aware Process Placement and Data Management. In *SIAM Conference on Computational Science & Engineering, SIAM CSE '15*, Salt-Lake City, United States, March 2015.

- [141] Emmanuel Jeannot, Guillaume Mercier, and François Tessier. Matching communication pattern with underlying hardware architecture . In *6th European Conference on Computational Fluid Dynamics* , Barcelona, Spain, July 2014.
- [142] Jack Dongarra, Emmanuel Jeannot, and Julien Langou. Modeling the LU Factorization for SMP Clusters. In *4th International Workshop on Parallel Matrix Algorithms and Applications (PMAA'06)*, Rennes, France, September 2006.
- [143] F. Despres, E. Fleury, E. Jeannot, F. Suter, and J-M. Nicod. Computational servers in a metacomputing environment. In *SIAM International Workshop on Parallel Matrix Algorithms and Applications*, Neuchâtel, Switzerland, August 2000.

Other conferences with proceeding and program committee

- [144] Guillaume Mercier Emmanuel Jeannot and François Tessier. TreeMatch : Un algorithme de placement de processus sur architectures multicœurs . In *ComPAS'13 / RenPar'21 - 21es Rencontres francophones du Parallélisme*, Grenoble, France, January 2013. Inria Grenoble.
- [145] Paul-Antoine Arras, Didier Fuin, Emmanuel Jeannot, Arthur Stouchinin, and Samuel Thibault. Ordonnancement de liste dans les systèmes embarqués sous contrainte de mémoire. In *ComPAS'13 / RenPar'21 - 21es Rencontres francophones du Parallélisme*, Grenoble, France, January 2013. Inria Grenoble.
- [146] Louis-Claude Canon and Emmanuel Jeannot. Precise Evaluation of the Efficiency and the Robustness of Stochastic DAG Schedules. In *Dixième conférence de la Société Française de Recherche Opérationnelle et d'Aide à la Décision (ROADEF 09)*, page 12, Nancy, France, February 2009.
- [147] Phillippe D'Anfray and Emmanuel Jeannot. GRID'5000 une plate-forme d'expérimentation pour les systèmes distribués à large échelle. In *Journées Réseaux - JRES 2007*, page 6 pages, Strasbourg France, 2007.
- [148] Y. Caniou and E. Jeannot. Le HTM : un module de prédition de performance non-intrusif pour l'ordonnancement de tâches sur plate-forme de meta-computing. In *16 ème Rencontres Francophones du Parallèleisme (RENPAR 2005)*, Le Croisic, France, April 2005.
- [149] Y. Caniou and E. Jeannot. Ordonnacement pour la grille : une extension de MCT. In *14 ème Rencontres Francophones du Parallèleisme (RENPAR 2002)*, Hammamet, Tunisie, April 2002.

International workshops without selection committee

- [150] M. Cosnard and E. Jeannot. On the Efficiency of Dynamic Scheduling for Automatic Parallelization. In *Workshop: Scheduling in Computer and Manufacturing Systems*, Dagstuhl, Germany, June 1997.
- [151] M. Cosnard and E. Jeannot. Building and Scheduling Coarse Grain Task Graphs. In *Workshop on Scheduling in Parallel and Distributed Systems (WSPDS'96)*, CIRM, Marseille, France, June 1996.

French speaking workshops without selection committee

- [152] Y. Caniou and E. Jeannot. Limitation des études validées par Simulation. In *Ecole thématique sur la Globalisation des Ressources Informatique et des Données : Utilisation et Services (GridUSe-2004)*, Metz, France, June 2004.

- [153] E. Jeannot and F. Wagner. Message Scheduling for Data Redistribution through High Performance Network. In *École DRUIDE 2004 (DistRibUtion de Donnée à grande Echelles)*, Le Croisic, France, May 2004.
- [154] Jeannot E. Compression adatative et dynamique de donnés. In *Ecole thématique GRID 2002*, pages 55 – 63, Aussois, France, December 2002. INRIA.
- [155] M. Cosnard and E. Jeannot. Automatic parallelization of coarse grained programs. In *Journées de l'informatique Messine (JIM'99)*, Ile de saulcy, Metz, France, May 1999.
- [156] M. Cosnard and E. Jeannot. Ordonnancement de graphes de tâches paramétrés. In *Conception et mise en œuvre d'applications parallèles irrégulières de grande taille (ICaRE'97)*, Aussois, France, December 1997.
- [157] M. Cosnard, E. Jeannot, and M. Loi. PlusPyr un outil d'aide à la parallélisation. In G. Bernard, J. Chassin de Kergommeaux, B. Folliot, and C. Roucairol, editors, *Placement dynamique et répartition de charge : application aux systèmes répartis et parallèles*, Collection didactique INRIA, dec. 1996, pages 131 – 150, Presqu’île de Giens, France, July 1996.

Research reports not published elsewhere

- [158] Guillaume Aupy, Emmanuel Jeannot, and Nicolas Vidal. Scheduling periodic I/O access with bi-colored chains: models and algorithms. Research Report RR-9255, Inria, February 2019.
- [159] Adrian Tate, Amir Kamil, Anshu Dubey, Armin Größlinger, Brad Chamberlain, Brice Goglin, Carter Edwards, Chris J. Newburn, David Padua, Didem Unat, Emmanuel Jeannot, Frank Hannig, Tobias Gysi, Hatem Ltaief, James Sexton, Jesus Labarta, John Shalf, Karl Fürlinger, Kathryn O’Brien, Leonidas Linardakis, Maciej Besta, Marie-Christine Sawley, Mark Abraham, Mauro Bianco, Miquel Pericàs, Naoya Maruyama, Paul H. J. Kelly, Peter Messmer, Robert B. Ross, Romain Cledat, Satoshi Matsuoka, Thomas Schulthess, Torsten Hoefer, and Vitus J. Leung. Programming Abstractions for Data Locality. Research report, PADAL Workshop 2014, April 28–29, Swiss National Supercomputing Center (CSCS), Lugano, Switzerland, November 2014.
- [160] Frédéric Desprez, Geoffrey Fox, Emmanuel Jeannot, Kate Keahey, Michael Kozuch, David Margery, Pierre Neyron, Lucas Nussbaum, Christian Pérez, Olivier Richard, Warren Smith, Gregor Von Laszewski, and Jens Vöckler. Supporting Experimental Computer Science. Rapport de recherche, Inria, March 2012.
- [161] Emmanuel Jeannot. On the Time Complexity of the Sort Problem. Research Report RR-6635, INRIA, September 2008.
- [162] Martin Do, Jack Dongarra, Emmanuel Jeannot, and Phillip J Mucci. A Test Suite for PVM. Research Report ut-cs-95-277, Department of Computer Science, University of Tennessee, Knoxville, 1995.

Other research reports

- [163] Alexandre Denis, Emmanuel Jeannot, and Philippe Swartvagher. Modeling Memory Contention between Communications and Computations in Distributed HPC Systems (Extended Version). Research Report RR-9451, INRIA Bordeaux, équipe TADAAM, February 2022.
- [164] Alexandre Denis, Julien Jaeger, Emmanuel Jeannot, and Florian Reynier. Experiments for Assessing Computation/Communication Overlap of MPI Nonblocking Collectives. Research Report

RR-9367, Inria & Labri, Univ. Bordeaux ; CEA, CEA/DAM/DIF, Bruyères-le-Châtel, France, October 2020.

- [165] Emmanuel Jeannot and Richard Sartori. Improving MPI Application Communication Time with an Introspection Monitoring Library. Research Report RR-9292, Inria, October 2019.
- [166] Alexandre Denis, Julien Jaeger, Emmanuel Jeannot, Marc Pérache, and Hugo Taboada. Dynamic Placement of Progress Thread for Overlapping MPI Non-Blocking Collectives on Manycore Processor. Research Report RR-9160, Inria Bordeaux Sud-Ouest, March 2018.
- [167] Brice Goglin, Emmanuel Jeannot, Farouk Mansouri, and Guillaume Mercier. A Hierarchical Model to Manage Hardware Topology in MPI Applications. Research Report RR-9077, Inria Bordeaux Sud-Ouest ; Bordeaux INP ; LaBRI - Laboratoire Bordelais de Recherche en Informatique, March 2018.
- [168] Cyril Bordage and Emmanuel Jeannot. Process Affinity, Metrics and Impact on Performance: an Empirical Study. Research Report RR-9132, Inria Bordeaux Sud-Ouest, December 2017.
- [169] George Bosilca, Clément Foyer, Emmanuel Jeannot, Guillaume Mercier, and Guillaume Papauré. Online Dynamic Monitoring of MPI Communications: Scientific User and Developper Guide. Research Report RR-9038, Inria Bordeaux Sud-Ouest, March 2017.
- [170] Jens Gustedt, Emmanuel Jeannot, and Farouk Mansouri. Fully-abstracted affinity optimization for task-based models. Research Report RR-8993, INRIA Nancy, December 2016.
- [171] Yiannis Georgiou, Emmanuel Jeannot, Guillaume Mercier, and Adèle Villiermet. Topology-aware resource management for HPC applications. Research Report RR-8859, Inria Bordeaux Sud-Ouest ; Bordeaux INP ; LaBRI - Laboratoire Bordelais de Recherche en Informatique, February 2016.
- [172] Emmanuel Jeannot, Guillaume Mercier, and François Tessier. Process Placement in Multicore Clusters: Algorithmic Issues and Practical Techniques. Research report RR-8269, INRIA, March 2013.
- [173] Daniel Balouek, Alexandra Carpen Amarie, Ghislain Charrier, Frédéric Despres, Emmanuel Jeannot, Emmanuel Jeanvoine, Adrien Lèbre, David Margery, Nicolas Niclausse, Lucas Nussbaum, Olivier Richard, Christian Pérez, Flavien Quesnel, Cyril Rohr, and Luc Sarzyniec. Adding Virtualization Capabilities to Grid'5000. Rapport de recherche RR-8026, INRIA, July 2012.
- [174] L.-C. Canon, E. Jeannot, and J. Weissman. A Scheduling Algorithm for Defeating Collusion. Research Report RR-7403, INRIA, October 2010.
- [175] Anne Benoit, Louis-Claude Canon, Emmanuel Jeannot, and Yves Robert. On the complexity of task graph scheduling with transient and fail-stop failures. Research Report RRLIP2010-01, lip-ensl, January 2010.
- [176] Louis-Claude Canon, Olivier Dubuisson, Jens Gustedt, and Emmanuel Jeannot. Defining and controlling the heterogeneity of a cluster: the wreakovoc tool. Research Report 7135, INRIA, December 2009.
- [177] Louis-Claude Canon and Emmanuel Jeannot. Precise Evaluation of the Efficiency and the Robustness of Stochastic DAG Schedules. Research Report 6895, INRIA, April 2009.
- [178] Jens Gustedt, Emmanuel Jeannot, and Martin Quinson. Experimental Validation in Large-Scale Systems: a Survey of Methodologies. Research Report 6859, INRIA, February 2009.

- [179] Olivier Dubuisson, Jens Gustedt, and Emmanuel Jeannot. Multi-Site Emulation using Wrekavoc: Validating Distributed Algorithms and Applications. Research Report RR-6696, INRIA, October 2008.
- [180] Louis-Claude Canon and Emmanuel Jeannot. Evaluation and Optimization of the Robustness of DAG Schedules in Heterogeneous Environments. Research Report 6476, INRIA, March 2008.
- [181] Louis-Claude Canon, Emmanuel Jeannot, Rizos Sakellariou, and Wei Zheng. Comparative Evaluation of the Robustness of DAG Scheduling Heuristics. Technical Report TR-0120, CoreGRID Institute on Resource Management and Scheduling, December 2007.
- [182] Emmanuel Jeannot and Flavien Vernier. A Practical Approach of Diffusion Load Balancing Algorithms. Research Report 5875, INRIA, March 2006.
- [183] Eddy Caron, Bruno DelFabbro, Frédéric Despres, Emmanuel Jeannot, and Jean-Marc Nicod. Managing Data Persistence in Network Enabled Servers. Research Report RR-5725, INRIA, October 2005.
- [184] E. Jeannot. Improving Middleware Performance with AdOC: an Adaptive Online Compression Library for Data Transfer. Research Report RR-5500, INRIA, February 2005.
- [185] V. Berten, J. Goossens, and E. Jeannot. On the Distribution of Sequential Jobs in Random Brokering For Heterogeneous Computational Grids. Research Report RR-5499, INRIA, February 2005.
- [186] E. Jeannot and F. Wagner. Modelizing, Predicting and Optimizing Redistribution between Clusters on Low Latency Networks. Research Report 5361, INRIA, LORIA, November 2004.
- [187] Y. Caniou and E. Jeannot. Improvements and Study of the Accuracy of the Tasks Duration Predictor, New Heuristics. Research Report RR-5206, INRIA, May 2004.
- [188] Y. Caniou and E. Jeannot. Study of the behaviour of heuristics relying on the Historical Trace Manager in a (multi)client-agent-server system. Research Report RR-5168, INRIA, April 2004.
- [189] E. Jeannot and F. Wagner. Message Scheduling for Data Redistribution through High Performance Networks. Research Report 5077, INRIA, LORIA, January 2004.
- [190] Johanne Cohen, Emmanuel Jeannot, and Nicolas Padoy. Parallel Data Redistribution Over a Backbone. Research Report RR-4725, INRIA, February 2003.
- [191] Y. Caniou and E. Jeannot. Schedulig on the GRID : Historical Trace and Dynamic Heuristics. Research Report RR-4620, INRIA, November 2002.
- [192] E. Jeannot. Adaptive online data compression. Research Report RR-4400, INRIA, France, March 2002.
- [193] F. Despres and E. Jeannot. Adding Data Persistence and Redistribution to NetSolve. Research Report RR2001-39, Laboratoire de l’Informatique du Parallelisme, Ecole Normale Supérieure de Lyon, France, 2001.
- [194] B. Cirou and E. Jeannot. Tripet: a Clustering Scheduling Algorithm for Heterogeneous Systems. Technical Report RT-0248, INRIA, France, 2001.
- [195] E. Jeannot. Automatic code generation in the task graph model. Technical Report RR-1230-00, LaBRI, Université de Bordeaux I, France, 2000.
- [196] M. Cosnard, E. Jeannot, and T. Yang. Symbolic Partitionning and Scheduling of Parameterized Task Graphs. Research Report RR1998-41, Laboratoire de l’Informatique du Parallelisme, Ecole Normale Supérieure de Lyon, France, September 1998. (www.ens-lyon.fr/LIP/publis.us.html).

- [197] M. Cosnard, E. Jeannot, and L. Rougeot. Low Memory Cost Dynamic Scheduling of Large Coarse Grain Task Graphs. Research Report RR98-14, Laboratoire de l’Informatique du Parallelisme, Ecole Normale Supérieure de Lyon, France, March 1998.
- [198] M. Cosnard and E. Jeannot. Building and Scheduling Coarse Grain Task Graphs. Research Report RR97-03, Laboratoire de l’Informatique du Parallelisme, Ecole Normale Supérieure de Lyon, France, Ecole Normale Supérieure de Lyon, France, February 1997.