

Reviewed Journals

1. "Multi Objective Resource Scheduling in LTE Networks Using Reinforcement Learning", Ioan Sorin Comsa, Mehmet Aydin, Sijing Zhang, Pierre Kuonen, Jean-Frédéric Wagen, International Journal of Distributed Systems and Technologies (IJDST), 2012, Volume 3, Issue 2
2. "Exploring decentralized dynamic scheduling for grids and clouds using the Community-Aware Scheduling Algorithm" Ye Huang, Nik Bessis, Peter Norrington, Pierre Kuonen and Beat Hirsbrunner, in Future Generation Computer Systems (FGCS), N.H. Elsevier, May 2011, ISSN 0167-739X
3. "Intelligent ray launching algorithm for indoor scenarios", Z. Lai, G. De La Roche, N. Bessis, P. Kuonen, G. Clapworthy, D. Zhou, J. Zhang in the Radioengineering journal, Vol. 20, No. 2, June 2011
4. "CASP: a community-aware scheduling protocol", Ye Huang, Nik Bessis, Pierre Kuonen, Beat Hirsbrunner, in the International Journal of Grid and Utility Computing, Vol. 2, No.1 pp. 11 - 24, 2011
5. "The Development of a Parallel Ray Launching Algorithm for Wireless Network Planning", Lai, Z., Bessis, N., De Laroche, G., Kuonen, P., Zhang, J. and Clapworthy, G. in International Journal of Distributed Systems and Technologies, IGI, Volume 2, Issue 2, 2011.
6. "Modelling of a self-led critical friend topology in inter-cooperative grid communities", N.Bessis, Y.Huang, P.Norrington, A.Brown, P.Kuonen, B.Hirsbrunner, in Simulation Modelling Practice and Theory, Volume 19, Issue 1, Modeling and Performance Analysis of Networking and Collaborative Systems, Pages 5-16, ISSN 1569-190, January 2011.
7. "GUEST EDITORIAL PREFACE: The Crystal Ball in HPC has Never Been More Exciting, nor More Important", P.Kuonen and M.-C. Sawley, International Journal of Distributed systems and Technologies, IGI Publishing, Vol. 1, No. 2, April-June 2010.
8. "MaGate: An Interoperable, Decentralized and Modular High-Level Grid Scheduler", Ye Huang, Amos Brocco, Michele Courant, Beat Hirsbrunner, Pierre Kuonen, in International Journal of Distributed Systems and Technologies, IGI, Volume 1, Issue 3, pages 24-39, 2010.
9. "Critical Friend Model: A Vision Towards Inter-cooperative Grid Communities", Y.Huang, N.Bessis, A.Brocco, P.Kuonen and B.Hirsbrunner in International Journal On Advances in Intelligent Systems, IARIA, volume 3, number 1-2, pages 24-33, ISSN 1942-2679, 2010.
10. "Towards an Integrated Vision across Inter-cooperative Grid Virtual Organizations" Y.Huang, N.Bessis, A.Brocco, S.Sotiriadis, M.Courant, P.Kuonen and B.Hisbrunner in Future Generation Information Technology, Lecture Notes in Computer Science, 2009, Volume 5899/2009, 120-128.
11. "Programming the Grid with POP-C++", T. A. Nguyen, P. Kuonen, in Future Generation Computer Systems (FGCS), N.H. Elsevier, Volume 23, Issue 1, January 2007, pages 23-30.
12. "Combinatorial optimization algorithms for radio network planning", P.Calégari, F.Guidéc, P.Kuonen, and F.Nielsen, Theoretical Computer Science (TCS), volume 263, Issues 1-2, page 235-245 July 2001
13. "Le MetaComputing au Service du Calcul de Haute Performance", P. Kuonen, N. Abdennadher, G. Babin, Technique et Sciences Informatiques (TSI), vol.19, no 6/2000, pp. 743-765, Hermes Paris, 2000, ISBN: 2-7462-0164-X
14. "A Taxonomy of Evolutionary Algorithms in Combinatorial Optimization", P.Calégari, G.Coray, D.Kobler, P.Kuonen, and A.Hertz, Journal of Heuristics, vol. 5, no. 2, pp. 145-158, July 1999.
15. "Object-Oriented Parallel Software for Parallel Radio Wave Propagation Simulation in Urban Environment", F. Guidéc, P. Calégari, P. Kuonen, and M. Pahud, published in Computers and Artificial Intelligence, 1999.

16. *"Parallel Island-Based Genetic Algorithm for Radio Network Design"*, P.Calégari, F.Guidéc, P.Kuonen, and D.Kobler, Journal of Parallel and Distributed Computing (JPDC): special issue on Parallel Evolutionary Computing, Vol.47, November 1997, pp. 86-90, Academic Press.
17. *"Radio Wave Propagation Simulation on the Cray T3D"*, F.Guidéc, P.Kuonen, and P.Calégari, ParCo'97, Bonn, September 16-19 1997, published in Parallel Computing: Fundamentals, Applications and New Directions, F.J. Peters E.H. D'Hollander, G.R. Joubert and U. Trottenberg, Eds. 1998, vol. 12 of Advances in parallel computing, pp. 155-162, Elsevier Science B.V. ISBN 0-444-82882-6.
18. *"Graph Theory Applied to Mobile Network Optimisation"*, P.Kuonen, S.Ubéda, J.Zerovnik, published in Electronical Review, Lubjana, Slovenia, Vol 63, No.2, pp.65-144, 1996.
19. *"Les Systèmes Experts : Champs d'application, critères de choix"*, P.Kuonen, Proceeding of the "Journées des Systèmes Experts", Tunis, 6-8 June 1988. Also published in "Le journal de l'intelligence artificielle", No.8, October 1988.

Reviewed conferences/workshops

20. *"Scheduling Policies Based on Dynamic Throughput and Fairness Tradeoff Control in LTE-A Networks"*, ...Proceedings of the 39th Annual IEEE Conference on Local Computer Networks (LCN), September 2014, Edmonton, Canada (Accepted).
21. *"Construction of Data Aggregation Tree for Multi-objectives in Wireless Sensor Network through Jump Particle Swarm Optimization"*, Yao Lu, Jianping Chen, Comsa I.S., Kuonen P., Hirsbrunner B, 18th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems; Gdynia, Poland, 2014 (Accepted)
22. *"Securing the Grid using virtualization: The ViSaG model"*, Pierre Kuonen, Valentin Clement, and Frédéric Bapst, Cloud Computing 2014, Venice, Italy April 2014
23. *"POP-Java : Parallélisme et distribution orienté objet"*, Beat Wolf, Pierre Kuonen, Thomas Dandekar, in the Conférence d'informatique en Parallélisme, Architecture et Système (Compas2014), Neuchâtel, Switzerland, April 2014.
24. *"Scheduling Policies Based on Dynamic Throughput and Fairness Tradeoff Control in LTE-A Networks"*, Ioan Sorin Comsa, Sijing Zhang, Mehmet Aydin, Pierre Kuonen, Jean-Frédéric Wagen, in the 9th IC1004 Action of Cooperative Radio Communications for Green Smart Environments, Ferrara, Italy, February 2014.
25. *"Backup Path with Energy Prediction Based on Energy-Aware Spanning Tree in Wireless Sensor Networks"*, Yao Lu, Jianping Chen, Comsa, I.S. and Kuonen, P. Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC), 2013 International Conference on , vol., no., pp.392,397, 10-12 Oct. 2013
26. *"Insight into a Self Organizing LTE-A Scheduler"*, Ioan Sorin Comsa, Sijing Zhang, Mehmet Aydin, Pierre Kuonen, Jean-Frédéric Wagen, in the 7th IC1004 Action of Cooperative Radio Communications for Green Smart Environments, Ilmenau, Germany, May 2013.
27. *"Scheduling in 4G/LTE to improve system performance"*, Ioan Sorin Comsa, Sijing Zhang, Mehmet Aydin, Pierre Kuonen, Jean-Frédéric Wagen, in the Wireless Communication Workshop, Swiss Electromagnetics Research and Engineering Centre, Zurich, December 2013.
28. *"A novel approach for heuristic pairwise DNA sequence alignment"*, Beat Wolf and Pierre Kuonen, The 2013 International Conference on Bioinformatics & Computational Biology (BIOCOMP'13)
29. *"Backup Path with Energy Prediction based on Energy-Aware Spanning Tree in WSNs"*, Yao Lu, Jianping Chen, Ioan Comsa, Pierre Kuonen, Beijing, China, Oct.9 ~ Oct.12, 2013
30. *"A Novel Dynamic Q-Learning-Based Scheduler Technique for LTE-advanced Technologies Using Neural Networks"*, Ioan Sorin Comsa, Mehmet Aydin, Sijing Zhang, Pierre Kuonen, Jean-Frédéric Wagen, in the 37th Annual IEEE Conference on Local Computer Networks (IEEE LCN 2013), Clearwater Beach, Florida, USA, Oct. 2012, ISBN: 978-1-4673-1565-4.

31. "A Dynamic Q-Learning-Based Scheduler Technique for LTE-Advanced Technologies Using Neural Networks", Ioan Sorin Comsa, Mehmet Aydin, Sijing Zhang, Pierre Kuonen, Jean-Frédéric Wagen, in the 5th IC1004 Action of Cooperative Radio Communications for Green Smart Environments, Bristol, UK, Sept. 2012.
32. "Advancing Inter-cloud Resource Discovery Based on Past Service Experiences of Transient Resource Clustering", Stelios Sotiriadis, Stelios Sotiriadis, Pierre Kuonen, Published in Proceeding EIDWT '12 Proceedings of the 2012 Third International Conference on Emerging Intelligent Data and Web Technologies, Pages 38-45, IEEE Computer Society Washington, DC, USA, 2012 ISBN: 978-0-7695-4734-3
33. "Reinforcement Learning based Radio Resource Scheduling in LTE-Advanced", Ioan Sorin Comsa, Mehmet Aydin, Sijing Zhang, Pierre Kuonen, Jean-Frédéric Wagen, in the Proceedings of ICAC'2011, the 17th International Conference on Automation and Computing, University of Huddersfield, Huddersfield, UK , pp. 219 - 224, Sept. 2011, ISBN: 978-1-4673-0000-1
34. "Multi Objective Resource Scheduling using LTE-A Simulator", Ioan Sorin Comsa, Mehmet Aydin, Sijing Zhang, Pierre Kuonen, Jean-Frédéric Wagen, in the 3rd IC1004 Action of Cooperative Radio Communications for Green Smart Environments, Barcelona, Spain, Feb. 2012.
35. "Reinforcement Learning based Radio Resource Scheduling in LTE-Advanced", Ioan Sorin Comsa, Mehmet Aydin, Sijing Zhang, Pierre Kuonen, Jean-Frédéric Wagen, in the Proceedings of ICAC'2011, the 17th International Conference on Automation and Computing, University of Huddersfield, Huddersfield, UK , pp. 219 - 224, Sept. 2011, ISBN: 978-1-4673-0000-1.
36. "Community-Aware Scheduling Protocol for Grids", Ye Huang, Amos Brocco, Nik Bessis, Pierre Kuonen, Beat Hirsbrunner, in the proceeding of the 24th IEEE International Conference on Advanced Information Networking and Applications, pp.334-341, 20-23 April 2010, ISBN: 978-0-7695-4018-4
37. "On the Use of an Ray Launching for Indoor Scenarios", Lai Z., Bessis N., De La Roche G., Kuonen P., Zhang J. and Clapworthy G., in 4th European Conference on Antennas and Propagation (EuCAP, sponsored by IEEE), 12th-16th April 2010, Barcelona.
38. "The Characterization and Human-Body Influence on Indoor 3.25 GHz Path Loss Measurement", Lai Z., Bessis N., De La Roche G., Kuonen P., Zhang J. and Clapworthy G., in International Workshop on Planning and Optimization of Wireless Communication Networks (IEEE WCNC2010 Workshop), 18th April 2010, Sydney.
39. "Towards an Integrated Vision across Inter-cooperative Grid Virtual Organizations", Ye Huang, Nik Bessis, Amos Brocco, Stelios Sotiriadis, Michele Courant, Pierre Kuonen, Beat Hirsbrunner, in Proceedings of the 1st International Conference on Future Generation Information Technology (FGIT 2009), Jeju Island, Korea, pp.120-128, December 2009, ISBN: 978-3-642-10508-1, {Best Paper Award}.
40. "A new approach to solve angular dispersion of discrete ray launching for urban scenarios", Lai, Zhihua, Bessis Nik, de la Roche Guillaume, Kuonen Pierre, Zhang Jie, Clapworthy Gordon, in the proceeding of the IEEE Antennas & Propagation Conference, 2009 (LAPC 2009) Loughborough, UK, 16-17 Nov. 2009, Page(s) 133-136
41. "A Performance Evaluation of a Grid-Enabled Object-Oriented Parallel Outdoor Ray Launching for Wireless Network Coverage Prediction", Zhihua Lai, Bessis N.; Kuonen, P, de la Roche, G, Jie Zhang, Clapworthy, G. in the proceeding of the IEEE Fifth International Conference on Wireless and Mobile Communications(ICWMC 2009), 23-29 Aug. 2009 Cannes/La Bocca, France, Page(s) 38-43.
42. "Using Metadata Snapshots for Extending Ant-based Resource Discovery Functionality in Inter-cooperative Grid Communities", in Proceedings of the 1st International Conference on Evolving Internet (INTERNET 2009, sponsored by IEEE), pp. 89-94, Cannes/La Bocca, French Riviera, France, August, 2009. {Best Paper Award}.

43. "*MaGate Simulator: a simulation environment for a decentralized grid scheduler*", Ye Huang, Amos Brocco, Michele Courant, Beat Hirsbrunner, Pierre Kuonen, in Proceedings of the 8th International Symposium on Advanced Parallel Processing Technologies (APPT'09), pp. 273-287, Springer LNCS, Rapperswil, Switzerland, 2009.
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46. "*Smart Grid Node : un noeud intelligent pour la grille*", K. Cristiano and P. Kuonen, in O.Beaumont and V. Boudet, editors, RenPar'17, 17èmes Rencontres francophones du Parallélisme, Perpignan, France, pages 164-171, October 2006.
47. "*Well balanced sparse matrix-vector multiplication on a parallel heterogeneous system*", C. Dongmo Jiogo, P. Kuonen and P. Manneback, in 2006 IEEE International Conference on Cluster Computing, Barcelona, Spain September 25 – 28 2006
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53. "*ParoC++: Extending C++ to the Grid* ", Tuan-Anh Nguyen and Pierre Kuonen in the proceedings of the 2005 International Conference on Grid Computing and Applications, GCA 2005, pp. 177-183, Las Vegas, Nevada, USA, June 20-23, 2005
54. "*eGovSM Metadata Model: Towards a Flexible, Interoperable and Scalable eGovernment Service Marketplace*", Elena Mugellini, Omar Abou Khaled, Maria Chiara Pettenati and Pierre Kuonen, in the Proceedings of the 2005 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE'05), pp. 618-621, Hong Kong, 29 March-1 April 2005
55. "*Composite Simulations for B3G Service and Network Management Platform*", Guillaume Vivier, Karim El-Khazen, Panagiotis Demestichas and Pierre Kuonen, published in the proceeding of the Fifth IFIP-TC6 International Conference on Mobile and Wireless Communications Networks (MWCN 2003), Singapore, September / October 2003
56. "*Parallelization Scheme for an Approximate Solution to Time Constraint Problems*", Tuan-Anh. Nguyen, Pierre Kuonen, in the proceeding of the International Conference on Computational Science 2003 (ICCS2003), St. Petersburg, Russia, June 2003

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58. *"An Object-Oriented Framework for Efficient Data Access in Data Intensive Computing"*, Tuan-Anh Nguyen, Pierre Kuonen, in the proceeding of IPDPS 2003/Workshop on Advances in Parallel and Distributed Computational Models, Nice, France 22-26 April, 2003
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65. *"The K-Ring: a versatile model for the design of MIMD computer topology"*, P. Kuonen, in Proceedings of the High-Performance Computing Conference (HPC'99), pp. 381-385, SanDiego, 11-15 April 1999.
66. *The STORMS project: an antennas and propagation perspective"*, Cullen P.J.; Josselin S.; Kuonen P.; Menolascino R.; Pizarroso M. "in the proceedings of the IEEE Colloquium on Antennas and Propagation for Future Mobile Communications (Ref. No. 1998/219) pp.1/1 - 1/5, 23 Feb. 1998
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68. *"Multilevel Parallelism applied to the optimization of mobile networks"*, P.Kuonen, F.Guidéc, and P.Calégari, in Proceedings of the High-Performance Computing (HPC'98), A.Tentner, .Boston, Ed. Apr. 1998, pp. 277-282, Society for Computer Simulation International, ISBN:1 56555 145 1.
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71. *"Genetic approach to radio network optimization for mobile systems"*, P.Calegari, P.Kuonen, F.Guidicé, D.Wagner, published in the proceeding of the 47th Vehicular Technology Conference (IEEE-VTC'97), Phoenix, May 4-7, 1997, Vol. 2 p. 755-759.
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Books/book chapters

82. *"POP-C++ and Alpine3D: petition for a new HPC approach"*, P. Kuonen, M. Bavay and M. Lehning, book chapter in "Disaster Management and Threat Detection: Collaborative and Distributed Frameworks", editors E. Asimakopoulou, and N. Bessis, Information Science Reference, Hershey USA, 2010, ISBN:978-161520987-3.
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Other

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