

Publications Dick H.J. Epema

September 2018

Notes

1. Most of the papers in the lists of journal and conference papers below are available at <http://www.pds.ewi.tudelft.nl/epema/publications> and in the digital libraries of the ACM and the IEEE.
2. My **key papers** are:
 - D.H.J. Epema, M. Livny, R. van Dantzig, X. Evers, and J. Pruyne, "A Worldwide Flock of Condors: Load Sharing among Workstation Clusters," *Future Generation Computer Systems*, Vol. 12, pp. 53-65, 1996.
 - D.H.J. Epema, "Decay-Usage Scheduling in Multiprocessors," *ACM Trans. on Computer Systems*, Vol. 16, pp. 367-415, 1998.
 - A.I.D. Bucur and D.H.J. Epema, "Scheduling Policies for Processor Co-Allocation in Multicluster Systems," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 18, pp. 958-972, 2007.
 - P. Garbacki, D.H.J. Epema, and M. van Steen, "The Design and Evaluation of a Self-Organizing Super-Peer Network," *IEEE Trans. on Computers*, Vol. 59, pp. 317-331, 2010.
 - B.I. Ghit, N. Yigitbasi, A. Iosup, and D.H.J. Epema, "Balanced Resource Allocations across Multiple Dynamic MapReduce Clusters," *ACM Sigmetrics*, 2014.
3. My **publication statistics** are:
 - a. in **Scopus**: an **h-index** of **31** and **154 publications** listed.
 - b. in **Google Scholar (GS)**: an **h-index** of **46** and a total **number of citations** of 10244.
4. **Legend** in the lists below:
 - a. *h-index*: contributes to my Google Scholar h-index
 - b. *MSc*: paper based on supervised master's thesis
 - c. *GS=N*: number of citations in Google Scholar is *N*

Journal Articles

- 2018** [1] Alexey Ilyushkin, Ahmed Ali-Eldin, Nikolas Herbst, André Bauer, Alessandro Vittorio Papadopoulos, Dick H. J. Epema, Alexandru Iosup, “An Experimental Performance Evaluation of Autoscalers for Complex Workflows,” *ACM Transactions on Modeling and Performance Evaluation of Computer Systems*, Vol. 3(2), 8:1-8:32, 2018.
- 2017** [2] Yong Guo, Sungpack Hong, Hassan Chafi, Alexandru Iosup, and Dick Epema, “Modeling, Analysis, and Experimental Comparison of Streaming Graph-Partitioning Policies,” *Journal of Parallel and Distributed Computing*, Vol. 108, pp. 106-121, 2017.
- 2016** [3] Henri Bal, Dick Epema, Cees de Laat, Rob van Nieuwpoort, John Romein, Frank Seinstra, Cees Snoek, and Harry Wijshoff, “A Medium-Scale Distributed System for Computer Science Research: Infrastructure for the Long Term,” *IEEE Computer*, Vol. 49, pp. 54-63, 2016.
- [4] Adele Lu Jia, Siqi Shen, Dick H. J. Epema, Alexandru Iosup, “When Game Becomes Life: The Creators and Spectators of Online Game Replays and Live Streaming,” *ACM Transactions on Multimedia Computing, Communications, and Applications*, Vol. 12(4), 47:1-47:24, 2016.
- 2015** [5] Adele Lu Jia, Siqi Shen, Ruud van de Bovenkamp, Alexandru Iosup, Fernando A. Kuipers, Dick H. J. Epema, “Socializing by Gaming: Revealing Social Relationships in Multiplayer Online Games,” *ACM Transactions on Knowledge Discovery from Data*, Vol. 10(2), 2015.
- [6] Adele Lu Jia, Boudewijn Schoon, Johan Pouwelse, and Dick Epema, “Estimating user interaction strength in distributed online networks,” *Concurrency and Computation: Practice and Experience* Vol. 27(17), pp. 5311-5331, 2015.
- [7] Siqi Shen, Shun-Yun Hu, Alexandru Iosup, and Dick Epema, “Area of Simulation: Mechanism and Architecture for Multi-Avatar Virtual Environments,” *ACM Transactions on Multimedia Computing, Communications, and Applications*, Vol. 12(1), 2015.
- 2014** [8] Xiaowen Chu, Xiaowei Chen, Adele Lu Jia, Johan Pouwelse, and Dick Epema, “Dissecting Darknets: Measurement and Performance Analysis,” *ACM Trans. on Internet Technology*, Vol. 13, pp. 7:2-7:25, 2014.
- [9] Adele Lu Jia, Xiaowei Chen, Xiaowen Chu, Johan Pouwelse, and Dick Epema, “User behaviors in private BitTorrent communities,” *Computer Networks*, Vol. 60, pp. 34-45, 2014.
- [10] Tran Ngoc Minh, Thoai Nam, and Dick Epema, “Parallel Workload Modeling with Realistic Characteristics,” *IEEE Trans. on Parallel and Distributed Systems*, Vol. 25, pp. 2138-2148, 2014.
- 2013** [11] Bahman Javadi, Derrick Kondo, Alexandru Iosup, and Dick Epema, “The Failure Trace Archive: Enabling the Comparison of Failure Measurements and Models of Distributed Systems,” *Journal of Parallel and Distributed Computing*, Vol. 73, pp. 1208-1223, 2013.
- [12] A.L. Jia, R. Rahman, T. Vinko, J.A. Pouwelse, and D.H.J. Epema, “Systemic Risk and User-Level Performance in Private P2P Communities,” *IEEE Trans. on Parallel and Distributed Systems*, Vol. 24, pp. 2503-2512, 2013.
- [13] S. Abrishami, M. Naghibzadeh, and D.H.J. Epema, “Deadline-Constrained

h-index
GS=176

h-index
GS=111

- Workflow Scheduling Algorithms for Infrastructure as a Service Clouds," *Future Generation Computer Systems*, Vol. 29, pp. 158-169, 2013. h-index
GS=619
- [14] M. Meulpolder, L.E. Meester, and D.H.J. Epema, "The Problem of Upload Competition in Peer-to-Peer Systems with Incentive Mechanisms," *Concurrency and Computation: Practice and Experience*, Vol. 25, pp. 899-917, 2013. h-index
GS=84
- 2012** [15] S. Abrishami, M. Naghibzadeh, and D.H.J. Epema, "Cost-Driven Scheduling of Grid Workflows Using Partial Critical Paths," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 23, pp. 1400-1414, 2012.
- 2011** [16] A. Iosup, S. Osterman, N. Yigitbasi, R. Prodan, T. Fahringer, and D.H.J. Epema, "Performance Analysis of Cloud Computing Services for Many-Tasks Scientific Computing," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 22, pp. 931-945, 2011.
- [17] A. Iosup and D.H.J. Epema, "Grid Computing Workloads: Bags of Tasks, Workflows, Pilots, and Others," *IEEE Internet Computing*, Vol. 15, pp. 19-26, 2011.
- 2010** [18] O.O. Sonmez, H.H. Mohamed, and D.H.J. Epema, "On the Benefit of Processor Co-Allocation in Multicluster Grid Systems," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 21, pp. 778-789, 2010. h-index
GS=102
- [19] P. Garbacki, D.H.J. Epema, and M. van Steen, "The Design and Evaluation of a Self-Organizing Super-Peer Network," *IEEE Trans. on Computers*, Vol. 59, pp. 317-331, 2010.
- 2008** [20] J.A. Pouwelse, P. Garbacki, D.H.J. Epema, and H.J. Sips, "Pirates and Samaritans: A Decade of Measurements on Peer Production and their Implications for Net Neutrality and Copyright," *Telecommunications Policy*, Vol. 32, pp. 701-712, 2008. h-index
GS=244
- [21] A. Iosup, D.H.J. Epema, T. Tannenbaum, M. Farrallee, and M. Livny, "Interoperating Grids through Delegated Match-Making," *Journal of Scientific Programming*, Vol. 16, pp. 233-253, 2008. h-index
GS=65
- [22] P. Garbacki, D.H.J. Epema, and M. van Steen, "Broker-Placement in Latency-Aware Peer-to-Peer Networks," *Computer Networks*, Vol. 52, pp. 1617-1633, 2008. h-index
GS=538
- [23] A. Iosup, H. Lui, M. Jan, S. Anoep, C. Dumitrescu, L. Wolters, and D.H.J. Epema, "The Grid Workloads Archive," *Future Generation Computer Systems*, Vol. 24, pp. 672-686, 2008. h-index
GS=49
- [24] H.H. Mohamed and D.H.J. Epema, "KOALA: A Co-Allocating Grid Scheduler," *Concurrency and Computation: Practice and Experience*, Vol. 20, pp. 1851-1876, 2008. h-index
GS=76
- [25] J.A. Pouwelse, P. Garbacki, J. Wang, A. Bakker, J. Yang, A. Iosup, D.H.J. Epema, M. Reinders, M.R. van Steen, and H.J. Sips, "Tribler: A Social-Based Peer-to-Peer System," *Concurrency and Computation: Practice and Experience*, Vol. 20, pp. 127-138, 2008. h-index
GS=76
- 2007** [26] J.D. Mol, D.H.J. Epema, and H.J. Sips, "The Orchard Algorithm: Building Multicast Trees for P2P Video Multicasting without Free-Riding," *IEEE Trans. on Multimedia*, Vol. 9, pp. 1593-1604, 2007.
- [27] A.I.D. Bucur and D.H.J. Epema, "Scheduling Policies for Processor Co-Allocation in Multicluster Systems," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 18, pp. 958-972, 2007.

- 2004** [28] T. Kalker, D.H.J. Epema, P.H. Hartel, R.L. Lagendijk, and M. van Steen, "Music2Share—Copyright-Compliant Music Sharing in P2P Systems," *Proc. of the IEEE*, Vol. 92(6), pp. 961-970, 2004 (Special Issue on Enabling Security Technologies for Digital Rights Management). *h-index*
GS=137
- 2000** [29] A.M. Lele, S.K. Nandy, and D.H.J. Epema, "Harmony—An Architecture for Providing Quality of Service in Mobile Computing Environments," *Journal of Interconnection Networks*, Vol. 1(3), pp. 247-266, 2000.
- [30] H.E. Bal, D.H.J. Epema, et al., "The Distributed ASCI Supercomputer Project," *ACM Operating Systems Review*, Vol. 34(4), pp. 76-96, 2000. *h-index*
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GS=398
- 1998** [31] D.H.J. Epema, "Decay-Usage Scheduling in Multiprocessors," *ACM Trans. on Computer Systems*, Vol. 16, pp. 367-415, 1998.
- [32] A.W. van Halderen, B.J. Overeinder, P.M.A. Sloot, R. van Dantzig, D.H.J. Epema, and M. Livny, "Hierarchical Resource Management in the Polder Metacomputing Initiative," *Parallel Computing*, Vol. 24, pp. 1807-1825, 1998.
- 1996** [33] D.H.J. Epema, M. Livny, R. van Dantzig, X. Evers, and J. Pruyne, "A Worldwide Flock of Condors: Load Sharing among Workstation Clusters," *Future Generation Computer Systems*, Vol. 12, pp. 53-65, 1996.
- [34] D.H.J. Epema, "Joint Queue-Lengths and Sojourn-Time Distributions in a General Preemptive Feedback Queue," *Performance Evaluation*, Vol. 27&28, pp. 99-116, 1996 (special issue with proc. of Performance'96).
- 1991** [35] D.H.J. Epema, "Mean Waiting Times in a General Feedback Queue with Priorities," *Performance Evaluation*, Vol. 13, pp. 45-58, 1991.
- 1983** [36] D.H.J. Epema, "Surfaces with Canonical Hyperplane Sections," *Indagationes Math.*, Vol. 45 = *Proc. of the Koninklijke Nederlandse Akademie van Wetenschappen*, Vol. 86, pp. 173-184, 1983.

Conference Papers

- 2018**
- [30] Alexey Ilyushkin and Dick H. J. Epema, “The Impact of Task Runtime Estimate Accuracy on Scheduling Workloads of Workflows,” *17th IEEE/ACM Symp. on Cluster, Cloud, and Grid Computing*, 331-341, 2018.
- [31] Aleksandra Kuzmanovska, Hans van Den Bogert, Rudolf H. Mak, and Dick H. J. Epema, “Achieving Performance Balance Among Spark Frameworks with Two-Level Schedulers,” *17th IEEE/ACM Symp. on Cluster, Cloud, and Grid Computing*, 133-142, 2018.
- 2017**
- [32] Bogdan Ghit and Dick Epema, “Better Safe than Sorry: Grappling with Failures of In-Memory Data Analytics Frameworks,” *26th ACM Int'l Symp. on High-Performance Distributed Computing*, 105-116, 2017.
- [33] Long Cheng, Ying Wang, Yulong Pei and Dick Epema, “A Coflow-Based Co-Optimization Framework for High-Performance Data Analytics,” *Int'l Conference on Parallel Processing*, 392-401, 2017.
- [34] Alexey Ilyushkin, Ahmed Ali-Eldin, Nikolas Herbst, Alessandro Vittorio Papadopoulos, Bogdan Ghit, Dick H. J. Epema and Alexandru Iosup, “An Experimental Performance Evaluation of Autoscaling Policies for Complex Workflows,” *ACM/SPEC Int't Conf. on Performance Engineering*, 75-86, 2017.
- 2016**
- [35] Bogdan Ghit and Dick Epema, “Tyrex: Size-based Resource Allocation in MapReduce Frameworks,” *16th IEEE/ACM Symp. on Cluster, Cloud, and Grid Computing*, 2016.
- [36] Yong Guo, Ana Lucia Varbanescu, Dick Epema, and Alexandru Iosup, “Design and Experimental Evaluation of Distributed Heterogeneous Graph-Processing Systems,” *16th IEEE/ACM Symp. on Cluster, Cloud and Grid Computing*, 2016.
- [37] Aleksandra Kuzmanovska, Rudolf Mak and Dick Epema, “KOALA-F: A Resource Manager for Scheduling Frameworks in Clusters,” *16th IEEE/ACM Symp. on Cluster, Cloud, and Grid Computing*, 2016. MSc
- 2015**
- [38] Bogdan Ghit and Dick Epema, “Reducing Job Slowdown Variability for Data-Intensive Workloads,” *IEEE MASCOTS*, 2015.
- [39] Siqi Shen, Alexandru Iosup, Assaf Israel, Walfredo Cirne, Danny Raz and Dick Epema, “An Availability-on-Demand Mechanism for Datacenters,” *15th IEEE/ACM Symp. on Cluster, Cloud and Grid Computing*, 2015.
- [40] Yong Guo, Ana Lucia Varbanescu, Alexandru Iosup, and Dick Epema, “An Empirical Performance Evaluation of GPU-Enabled Graph-Processing Systems,” *15th IEEE/ACM Symp. on Cluster, Cloud and Grid Computing*, 2015.
- [41] Alexey Ilyushkin, Bogdan Ghit, and Dick Epema, “Scheduling Workloads of Workflows with Unknown Task Runtimes,” *15th IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing*, 2015. MSc
- [42] Mihai Capota, Johan Pouwelse, and Dick Epema, “Decentralized Credit Mining in P2P Systems,” *IFIP Networking*, 2015.
- [43] S. van Wouw, J. Vina, A. Iosup, and D.H.J. Epema, “An Empirical Performance Evaluation of Distributed SQL Query Engines,” *ACM/SPEC* **Best paper award**

- Int'l Conf. on Performance Engineering (Industry-Experience Track)*, 2015.
- [44] D. Gkorou, J.A. Pouwelse, and D.H.J. Epema, "Trust-Based Collection of Information in Distributed Reputation Networks," *ACM Symp. on Applied Computing*, 2015.
- 2014**
- [45] A. Iosup and D.H.J. Epema, "An Experience Report on Using Gamification in Technical Higher Education," *45th ACM Technical Symp. on Computer Science Education (SIGCSE)*, 2014.
- [46] S. Shen, N. Brouwers, A. Iosup, and D.H.J. Epema, "Characterization of Human Mobility in Networked Virtual Environments," *ACM Workshop on Network and Systems Support for Digital Audio and Video (NOSSDAV)*, 2014. **Winner CCGrid SCALE Challenge**
- [47] L. Fei, B. Ghit, A. Iosup, and D.H.J. Epema, "KOALA-C: A Task Allocator for Integrated Multicloud and Multicloud Environments," *IEEE Cluster*, 2014.
- [48] R. Petrocco, M. Capota, J.A. Pouwelse, and D.H.J. Epema, "Hiding User Content Interest while Preserving P2P Performance," *ACM Symp. on Applied Computing*, 2014.
- [49] Bogdan Ghit, Nezh Yigitbasi, Alexandru Iosup, and Dick Epema, "Balanced Resource Allocations across Multiple Dynamic MapReduce Clusters," *ACM Sigmetrics*, 2014.
- [50] A. Kuzmanovska, R. Mak, and D. Epema, "Dynamically Scheduling a Component-Based Framework in Clusters," *18th Workshop on Job Scheduling Strategies in Parallel Processing (JSSPP)*, 2014.
- [51] B. Ghit, M. Capota, T. Hegeman, J. Hidders, D.H.J. Epema, and A. Iosup, "V for Vicissitude: The Challenge of Scaling Complex Big Data Workflows," *SCALE Challenge at CCGrid*, 2014. **Best-paper award**
- [52] Mihai Capota, Johan A. Pouwelse, Dick H. J. Epema, "Towards a Peer-to-Peer Bandwidth Marketplace," *15th Int'l Conf. on Distributed Computing and Networking (ICDCN)*, 2014.
- 2013**
- [53] Tim Hegeman, Bogdan Ghit, Mihai Capota, Jan Hidders, Dick Epema, and Alexandru Iosup, "The BTWorld Use Case for Big Data Analytics: Description, MapReduce Logical Workflow, and Empirical Evaluation," *IEEE Int'l Conference on Big Data*, 2013.
- [54] Dimitra Gkorou, Tamas Vinko, Johan Pouwelse, and Dick Epema, "Leveraging Node Properties in Random Walks for Robust Reputations in Decentralized Networks," *IEEE Int'l Conference on Peer-to-Peer Computing*, 2013.
- [55] Siqi Shen, Kefeng Deng, Alexandru Iosup and Dick H.J. Epema, "Scheduling Jobs in the Cloud Using On-Demand and Reserved Instances," *EuroPar*, 2013.
- [56] Nezh Yigitbasi, Theodore L. Willke, Guangdeng Liao, and Dick Epema, "Towards Machine Learning-Based Auto-Tuning of MapReduce," *IEEE 21st Int'l Symp. on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*, 2013. **Best-paper award**
- [57] Rahim Delaviz Aghbolagh, Niels Zeilemaker, Johan Pouwelse, and Dick Epema, "A Network Science Perspective of a Distributed Reputation Mechanism," *IFIP Networking*, 2013.

- [58] Boxun Zhang, Gunnar Kreitz, Marcus Isaksson, Javier Ubbillos, Guido Urdaneta, Johan A. Pouwelse, and Dick H.J. Epema, "Understanding User Behavior in Spotify," *Mini-conference in INFOCOM*, 2013.
- [59] Mihai Capotă, Nazareno Andrade, Johan Pouwelse and Dick Epema, "Investment Strategies for Credit-Based P2P Communities," *21st Euromicro International Conference on Parallel, Distributed, and Network-Based Processing*, 2013.
- [60] A. L. Jia, X. Chen, X. Chu, J.A. Pouwelse, and D.H.J. Epema, "How to Survive and Thrive in a Private BitTorrent Community," *14th Int'l Conf. on Distributed Computing and Networking (ICDCN)*, 2013.
- 2012**
- [61] B.I. Ghit, M.N. Yigitbasi, and D.H.J. Epema, "Resource Management for Dynamic MapReduce Clusters in Multicluster Systems," *5th Workshop on Many-Task Computing on Grids and Supercomputers (MTAGS, co-located with Supercomputing)*, 2012.
- [62] A. Iosup, R. Prodan, and D.H.J. Epema, "IaaS Cloud Benchmarking: Approaches, Challenges, and Experience," *5th Workshop on Many-Task Computing on Grids and Supercomputers (MTAGS, co-located with Supercomputing)*, 2012).
- [63] R. Delaviz, J.A. Pouwelse, and D.H.J. Epema, "Targeted and Scalable Information Dissemination in a Distributed Reputation Mechanism," *7th ACM Workshop on Scalable Trusted Computing*, pp. 55-66, 2012.
- [64] R. Delaviz, N. Andrade, J.A. Pouwelse, and D.H.J. Epema, "SybilRes: A Sybil-resilient Flow-Based Decentralized Reputation Mechanism," *32nd IEEE Int'l Conference on Distributed Computing Systems (ICDCS)*, pp. 203-213, 2012.
- [65] D. Gkorou, T. Vinko, N. Chiluka, J.A. Pouwelse, and D.H.J. Epema, "Reducing the History in Decentralized Interaction-Based Reputation Systems," *IFIP Networking*, 2012.
- [66] R. Petrocco, M. Eberhard, J.A. Pouwelse, and D.H.J. Epema, "Deftpack: A Robust Piece-Picking Algorithm for Scalable Video Coding in P2P Systems," *IEEE Int'l Symp. on Multimedia*, 2012
- 2011**
- [67] M.N. Yigitbasi, O.O. Sonmez, A. Iosup, and D.H.J. Epema, "Performance Evaluation of Overload Control in Multicluster Grids," *12th IEEE/ACM Conference on Grid Computing (GRID)*, 2011.
- [68] M. Capota, N. Andrade, T. Vinko, F.R. Santos, J.A. Pouwelse, and D.H.J. Epema, "Inter-Swarm Resource Allocation in BitTorrent Communities," *11th IEEE Int'l Conference on Peer-to-Peer Computing*, 2011.
- [69] A.L. Jia, R. Rahman, T. Vinko, J.A. Pouwelse, and D.H.J. Epema, "Fast Download but Eternal Seeding: The Reward and Punishment of Sharing Ration Enforcement," *11th IEEE Int'l Conference on Peer-to-Peer Computing*, 2011. h-index
GS=116
- [70] B. Zhang, A. Iosup, J.A. Pouwelse, and D.H.J. Epema, "Identifying, Analyzing, and Modeling Flashcrowds in BitTorrent," *11th IEEE Int'l Conference on Peer-to-Peer Computing*, 2011. h-index
GS=281
- [71] M. Meulpolder, J.A. Pouwelse, D.H.J. Epema, and H.J. Sips, "Limitations on the Effectiveness of Decentralized Incentive Mechanisms," *IEEE Int'l Conf on Communications (ICC)*, 2011.
- [72] A.L. Jia, L. D'Acunto, M. Meulpolder, J.A. Pouwelse, and D.H.J. Epema,

“BitTorrent’s Dilemma: Enhancing Reciprocity of Reducing Inequity,” *IEEE Consumer Communications and Networking Conference (CCNC)*, 2011.

- [73] M.N. Yigitbasi, Lily Mummert, Padmanabhan Pillai, and D.H.J. Epema, "Incremental Placement of Interactive Perception Applications," *20th ACM Int'l Symp. on High-Performance Distributed Computing*, 2011.
- [74] A. Iosup, M.N. Yigitbasi, and D.H.J. Epema, "On the Performance Variability of Production Cloud Services," *11th IEEE/ACM Int'l Symposium on Cluster, Cloud and Grid Computing (CCGrid)*, 2011.
- [75] D. Gkorou, J.A. Pouwelse, and D.H.J. Epema, “Betweenness Centrality Approximations for an Internet Deployed P2P Reputation System,” *Eighth Int'l Workshop on Hot Topics in P2P Systems (HoT-P2P)*, 2011.
- 2010** [76] Simon Ostermann, Alexandru Iosup, Nezh Yigitbasi, Radu Prodan, Thomas Fahringer, and Dick Epema, “A Performance Analysis of EC2 Cloud Computing Services for Scientific Computing,” *First International Conference on Cloud Computing (CloudComp)*, pp. 115-131, 2010.
- [77] S. Abrishami, M. Naghibzadeh, and D.H.J. Epema, "Cost-Driven Scheduling of Grid Workflows Using Partial Critical Paths," *Grid*, 2010.
- [78] M.N. Yigitbasi, and D.H.J. Epema, "Static and Dynamic Overprovisioning Strategies for Performance Consistency in Grids," *Grid*, 2010. h-index
GS=70
- [79] M.N. Yigitbasi, M. Gallet, D. Kondo, A. Iosup, and D.H.J. Epema, "Analysis and Modeling of Time-Correlated Failures in Large-Scale Distributed Systems," *Grid*, 2010.
- [80] M. Gallet, M.N. Yigitbasi, B. Javadi, D. Kondo, A. Iosup, and D.H.J. Epema, "A Model for Space-Correlated Failures in Large-Scale Distributed Systems," *Euro-Par*, 2010. **Best-paper award**
h-index
GS=105
- [81] B. Zhang, A. Iosup, J.A. Pouwelse, D.H.J. Epema, and H.J. Sips, "Sampling Bias in BitTorrent Measurements," *Euro-Par*, 2010.
- [82] R. Rahman, M. Meulpolder, D. Hales, J.A. Pouwelse, D.H.J. Epema, and H.J. Sips, "Improving Efficiency and Fairness in P2P Systems with Effort-Based Incentives," *IEEE Int'l Conf. on Communications (ICC)*, 2010.
- [83] O. Sonmez, M.N. Yigitbasi, S. Abrishami, A. Iosup, and D.H.J. Epema, "Performance Analysis of Dynamic Workflow Scheduling in Multicluster Grids," *19th ACM Int'l Symp. on High-Performance Distributed Computing*, 2010.
- [84] M. Meulpolder, L. D'Acunto, M. Capota, M. Wojciechowski, J.A. Pouwelse, D.H.J. Epema, and H.J. Sips, "Public and Private BitTorrent Communities: A Measurement Study," *9th Int'l Workshop on Peer-to-Peer Systems (IPTPS'10)*, 2010.
- [85] D. Kondo, B. Javadi, A. Iosup, and D.H.J. Epema, "The Failure Trace Archive: Enabling Comparative Analysis of Failures in Diverse Distributed Systems," *10th IEEE/ACM Int'l Symposium on Cluster, Cloud and Grid Computing (CCGrid)*, 2010.
- [86] M.N. Yigitbasi and D.H.J. Epema, "Overdimensioning for Consistent Performance in Grids," *10th IEEE/ACM Int'l Symposium on Cluster, Cloud and Grid Computing (CCGrid)*, 2010.
- [87] Tran Ngoc Minh, L. Wolters, and D.H.J. Epema, "A Realistic Integrated Model of Parallel System Workloads," *10th IEEE/ACM Int'l Symposium on* h-index
GS=109

- Cluster, Cloud and Grid Computing (CCGrid), 2010.*
- 2009**
- [88] J.J.D. Mol, A. Bakker, J.A. Pouwelse, D.H.J. Epema, and H.J. Sips, "The Design and Deployment of a BitTorrent Live Video Streaming Solution," *IEEE Int'l Symp. on Multimedia*, 2009. MSc
GS=9
- [89] S. Ostermann, A. Iosup, N. Yigitbasi, R. Prodan, T. Fahringer, and D.H.J. Epema, "A Performance Analysis of EC2 Cloud Computing Services for Scientific Computing," *First Int'l Conf. on Cloud Computing (Cloudcomp)*, 2009. h-index
GS=54
- [90] M. Meulpolder, J.A. Pouwelse, D.H.J. Epema, and H.J. Sips, "Modeling and Analysis of Bandwidth-Inhomogeneous Swarms in BitTorrent," *9th Int'l Conference on Peer-to-Peer Computing*, 2009. h-index
GS=43
- [91] O.O. Sonmez, M.N. Yigitbasi, A. Iosup, and D.H.J. Epema, "Trace-Based Evaluation of Job Runtime and Queue Wait Time Predictions in Grids," *18th ACM Int'l Symp. on High-Performance Distributed Computing*, 2009.
- [92] M.N. Yigitbasi, A. Iosup, and D.H.J. Epema, "C-Meter: A Framework for Performance Analysis of Computing Clouds," *Int'l Workshop on Cloud Computing*, 2009. h-index
GS=48
- [93] O.O. Sonmez, B. Grundeken, H.H. Mohamed, A. Iosup, and D.H.J. Epema, "Scheduling Strategies for Cycle Scavenging in Multicluster Grid Systems," *9th IEEE/ACM Int'l Symposium on Cluster Computing and the Grid (CCGrid)*, 2009. h-index
MSc
- [94] M. Meulpolder, J.A. Pouwelse, D.H.J. Epema, and H.J. Sips, "BarterCast: A Practical Approach to Prevent Lazy Freeriding in P2P Networks," *Sixth Int'l Workshop on Hot Topics in P2P Systems (Hot-P2P)*, 2009. GS=124
- 2008**
- [95] V. Nae, A. Iosup, S. Podlipnig, R. Prodan, D.H.J. Epema, and T. Fahringer, "Efficient Management of Data Center Resources for Massively Multiplayer Online Games," *SuperComputing*, 2008. h-index
GS=124
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