

References

- [1] Augusto Ciuffoletti and Luca Simoncini. Design of multilevel fault tolerant systems. In Mario Dal Cin and Elmar Dilger, editors, *Self-Diagnosis and Fault-Tolerance*, number 4 in Werkhefte der Universitat Tubingen, pages 65–83. Attempto - Verlag Tubingen - GmbH, Tubingen, 1981. Available from: http://www.di.unipi.it/~augusto/papers/cur_1981_a.pdf.
- [2] Augusto Ciuffoletti and Luca Simoncini. Integrated design methodology of failure tolerant systems. In *Proc. of Workshop on Fault Tolerant Systems and Diagnostic*, pages 49–53, Brno (Czechoslovakia), 1981.
- [3] Augusto Ciuffoletti and Luca Simoncini. Structured design of failure tolerant systems. In *Atti del Congresso Annuale dell’AICA*, pages 587–593, Pavia (Italy), September 1981.
- [4] Giorgio Barigazzi, Augusto Ciuffoletti, and Lorenzo Strigini. A distributed algorithm for post-failure load redistribution. In *Atti del Congresso Annuale dell’AICA*, pages 145–151, Padova (Italy), October 1982.
- [5] Giorgio Barigazzi, Augusto Ciuffoletti, and Lorenzo Strigini. Reconfiguration procedure in a distributed multiprocessor system. In *Proc. of IEEE International Symposium on Fault-Tolerant Computing*, pages 73–80, Santa Monica (California), June 1982.
- [6] Giorgio Barigazzi, Augusto Ciuffoletti, and Lorenzo Strigini. A distributed algorithm for post-failure load redistribution. In *Proc. of IEEE International Conference on Distributed Computing Systems*, pages 71–76, Miami-Ft. Lauderdale (Florida), October 1982.
- [7] Augusto Ciuffoletti. Specifiche per un algoritmo di error recovery distribuito. In *Atti del Congresso Annuale dell’AICA*, pages 326–341, Napoli (Italy), September 1983.
- [8] Daniele Briatico, Augusto Ciuffoletti, and Luca Simoncini. A distributed domino-effect free recovery algorithm. In *Proc. of IEEE Symposium on Reliability in Distributed Software and Database Systems*, pages 207–215, Silver Spring (Maryland), October 1984. Available from: http://www.di.unipi.it/~augusto/papers/cur_1984_b.pdf.
- [9] Augusto Ciuffoletti. Error recovery in a system of communicating processes. In *Proc. of 7th International IEEE Conference on Software Engineering*, pages 6–17, Orlando (Florida), March 1984. Available from: http://www.di.unipi.it/~augusto/papers/cur_1984_a.pdf.
- [10] Daniele Briatico, Augusto Ciuffoletti, Luca Simoncini, and Lorenzo Strigini. An implementation of error detection and fault treatment for the muteam prototype. *Distributed Processing Technical Committee Newsletter*, 7(2):22–29, 1985.

- [11] Augusto Ciuffoletti. On the causal description of interactions in a distributed system. Technical report, Dipartimento di Informatica, 1985. Available from: http://www.di.unipi.it/~augusto/papers/cur_1985_b.pdf.
- [12] Augusto Ciuffoletti. La coordinazione delle attività di ripristino nei sistemi distribuiti. In *Atti del Congresso Annuale dell'AICA*, pages 113–124, Trieste (Italy), October 1989.
- [13] Augusto Ciuffoletti. *Quattro Esercizi di Programmazione*. ECIG, Genova, 1990.
- [14] Augusto Ciuffoletti. La propagazione epidemica in una matrice di processori. In *Atti del Congresso Annuale dell'AICA*, pages 695–706, Bari (Italy), September 1990.
- [15] Gianluigi Alari and Augusto Ciuffoletti. Un miglioramento dell'algoritmo di sincronizzazione probabilistico. In *Atti del Congresso Annuale dell'AICA*, Siena (Italy), October 1991.
- [16] Gianluigi Alari and Augusto Ciuffoletti. Using full message exchange for probabilistic clock synchronization. *Future Generation Computer Systems*, 8(1-3):249–252, July 1992. doi:10.1016/0167-739X(92)90044-C.
- [17] Gianluigi Alari and Augusto Ciuffoletti. Improving the probabilistic clock synchronization algorithm. *Microprocessing and Microprogramming*, 35:463–468, 1992.
- [18] Gianluigi Alari and Augusto Ciuffoletti. Una soluzione al problema di *group membership* in un sistema distribuito sincrono. In *Atti del Congresso Annuale dell'AICA*, pages 835–846, Turin (Italy), October 1992.
- [19] Augusto Ciuffoletti. Broadcast by epidemic diffusion in an array of processors. *Rivista di Informatica della Associazione Italiana Calcolo Automatico*, 22(3):241–252, 1992. Available from: http://www.di.unipi.it/~augusto/papers/cur_1992_a.pdf.
- [20] Augusto Ciuffoletti. Modeling stochastic diffusion in a mesh network. Technical Report TR-5/92, Università degli Studi di Pisa - Dipartimento di Informatica, March 1992.
- [21] Gianluigi Alari and Augusto Ciuffoletti. Group membership in a synchronous distributed system. In *Proc. of the 5th IEEE Symposium on Parallel and Distributed Processing*, pages 490–493, Dallas (USA), December 1993. Available from: http://www.di.unipi.it/~augusto/papers/cur_1993_a.pdf.
- [22] Augusto Ciuffoletti. Reliability versus cost: design of a probabilistic broadcast algorithm. *Distributed Computing*, 7:115–127, 1994. Available from: http://www.di.unipi.it/~augusto/papers/cur_1994_a.pdf, doi:10.1007/BF02277856.

- [23] Augusto Ciuffoletti. Using simple diffusion to synchronize the clocks in a distributed system. In *Proc. of 14th IEEE International Conference on Distributed Computing Systems*, pages 484–491, Poznan (Poland), June 1994.
- [24] Federica Gattai, Roberta Golinelli, and Augusto Ciuffoletti. Clock synchronization in a virtual ring. In *Proc. of 6th EUROMICRO Workshop on Real-Time Systems*, pages 72–77, Vaesteraas (Sweden), June 1994. Available from: http://www.di.unipi.it/~augusto/papers/cur_1994_b.pdf.
- [25] Gianluigi Alari and Augusto Ciuffoletti. Implementing a probabilistic clock synchronization algorithm. Technical Report Research Report 96-03, Université Catholique de Louvain, January 1996. Available from: http://www.di.unipi.it/~augusto/papers/cur_1996_a.pdf.
- [26] Gianluigi Alari and Augusto Ciuffoletti. Implementing a probabilistic clock synchronization algorithm. *Real-Time Systems*, 13(1):25–46, July 1997. doi:10.1023/A:1007900902186.
- [27] Augusto Ciuffoletti. Self-stabilizing diffusion. In *Proc. of 2nd European Research Seminar on Advances in Distributed Systems*, pages 302–306, Zinal (Switzerland), March 1997. Available from: http://www.di.unipi.it/~augusto/papers/cur_1997_a.pdf.
- [28] Augusto Ciuffoletti. Providing a uniform timing to the clients of a distributed service. In *Proc. of IASTED Symposium on Parallel and Distributed Computing Systems*, pages 280–283, Brisbane (Australia), December 1998. Available from: http://www.di.unipi.it/~augusto/papers/cur_1998_a.ps.
- [29] Augusto Ciuffoletti. Sharing a common time reference in a heterogeneous distributed system. In *Proc. of 7th EUROMICRO workshop on parallel and distributed processing*, pages 359–366, Funchal (Portugal), January 1999. Available from: http://www.di.unipi.it/~augusto/papers/cur_1999_a.ps.
- [30] Augusto Ciuffoletti. Uniform timing of a multi-cast service. In *Proc. of 19th IEEE International Conference on Distributed Computing Systems*, pages 478–486, Austin (Texas – USA), May 1999. Available from: http://www.di.unipi.it/~augusto/papers/cur_1999_b.pdf.
- [31] Augusto Ciuffoletti. Self-stabilizing clock synchronization in a hierarchical network. In *Proc. of 4th Workshop on Self-Stabilizing Systems*, pages 86–93, Austin (Texas – USA), May 1999. Available from: http://www.di.unipi.it/~augusto/papers/cur_1999_c.pdf.
- [32] Augusto Ciuffoletti. Brief announcement: Self-stabilization: Beyond the token ring circulation. In *Proc. of the 19th ACM Symposium on Principles of Distributed Computing*, page 333, Portland (Oregon), July 2000. Available from: http://www.di.unipi.it/~augusto/papers/cur_2000_a.pdf.

- [33] Augusto Ciuffoletti. Measuring one-way metrics without a GPS. In *Proc. of Passive and Active Measurement Workshop (PAM2002)*, pages 56–65, Ft. Collins (Colorado), March 2002. Available from: http://www.di.unipi.it/~augusto/papers/cur_2002_a.pdf.
- [34] Augusto Ciuffoletti. Session level rollback recovery. In *Proc. of Seventh IEEE Symposium on Computers and Communications*, pages 9–14, Giardini Naxos, Italy, July 2002. Available from: http://www.di.unipi.it/~augusto/papers/cur_2002_b.pdf.
- [35] Augusto Ciuffoletti. *Tecnologie di rete e Internet*. Jackson Libri Editore, 2002.
- [36] Augusto Ciuffoletti, Tiziana Ferrari, Antonia Ghiselli, and Cristina Vistoli. Architecture of monitoring elements for the network element modeling in a grid infrastructure. In *Proc. of Workshop on Computing in High Energy and Nuclear Physics*, La Jolla (California), March 2003. Available from: http://www.di.unipi.it/~augusto/papers/cur_2003_a.pdf.
- [37] Sergio Andreatto, Augusto Ciuffoletti, Antonia Ghiselli, and Cristina Vistoli. Monitoring the connectivity of a grid. In *2nd Workshop on Middleware for Grid Computing*, pages 47–51, Toronto, Canada 2004. Available from: http://www.di.unipi.it/~augusto/papers/cur_2004_b.pdf.
- [38] Augusto Ciuffoletti and Tiziana Ferrari. Experiences in designing a modular resource monitoring service. In *13th IEEE International Workshops on Enabling Technologies*, pages 260–265, Modena, June 2004. Available from: http://www.di.unipi.it/~augusto/papers/cur_2004_a.pdf.
- [39] Sergio Andreatto, Augusto Ciuffoletti, Antonia Ghiselli, and Cristina Vistoli. Gluedomains: Organization and accessibility of network monitoring data in a grid. Technical Report TR-05-15, Universit di Pisa, Largo Pontecorvo - Pisa -ITALY, May 2005. Available from: http://www.di.unipi.it/~augusto/papers/cur_2005_a.pdf.
- [40] Augusto Ciuffoletti. The wandering token: Congestion avoidance of a shared resource. Technical Report TR-05-13, Universit di Pisa, Largo Pontecorvo - Pisa -ITALY, May 2005. Available from: http://www.di.unipi.it/~augusto/papers/cur_2005_b.pdf.
- [41] Augusto Ciuffoletti. Packet delay monitoring without a GPS. Technical Report TR-05-16, Universit di Pisa, Largo Pontecorvo - Pisa -ITALY, June 2005. Available from: http://www.di.unipi.it/~augusto/papers/cur_2005_c.pdf.
- [42] Augusto Ciuffoletti and Galina Antonova. Clock phase change compensation using graham scan. In *Conference on IEEE-1588 Standard for a Precision Clock Synchronization for Networked Measurement and Control*

- Systems*, page to appear, Zurich, October 2005. National Institute of Technology (NIST). Available from: http://www.di.unipi.it/~augusto/papers/cur_2005_d.pdf.
- [43] M. Bueva, L. Schelovanov, G. Antonova, and A. Ciuffoletti. Modeling technique and a simulation tool for analysis of clock synchronization in communication networks. In *11th International Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Network*, page 8, Trento (IT), June 2006. Available from: http://www.di.unipi.it/~augusto/papers/cur_2006_c.pdf.
- [44] Augusto Ciuffoletti. Scalable accessibility of a recoverable database using a wandering token. Technical Report TR-06-02, Università di Pisa, Largo Pontecorvo - Pisa -ITALY, January 2006. Available from: http://www.di.unipi.it/~augusto/papers/cur_2006_a.pdf.
- [45] A. Ciuffoletti. The wandering token: Congestion avoidance of a shared resource. In *Austrian-Hungarian Workshop on Distributed and Parallel Systems*, page 10, Innsbruck (Austria), September 2006. Available from: http://www.di.unipi.it/~augusto/papers/cur_2006_f.pdf.
- [46] Augusto Ciuffoletti and Michalis Polychronakis. Architecture of a network monitoring element. Technical Report TR-0033, CoreGRID Project, February 2006. Available from: http://www.di.unipi.it/~augusto/papers/cur_2006_b.pdf.
- [47] Augusto Ciuffoletti and Michalis Polychronakis. Architecture of a network monitoring element. In *15th IEEE International Workshop on Enabling Technologies: Infrastructures for Collaborative Enterprises (WET-ICE 2006)*, page 2, Manchester (UK), June 2006. Available from: http://www.di.unipi.it/~augusto/papers/cur_2006_d.pdf.
- [48] Antonis Papadogiannakis, Antonis Kapravelos, Michalis Polychronakis, Evangelos Markatos, and Augusto Ciuffoletti. Passive end-to-end packet loss estimation for grid traffic monitoring. In *unpublished*, Krakov, October 2006. Available from: http://www.di.unipi.it/~augusto/papers/cur_2006_g.pdf.
- [49] S. Andrezzi, D. Antoniadis, A. Ciuffoletti, A. Ghiselli, E.P. Markatos, M. Polychronakis, and P. Trimintzios. Issues about the integration of passive and active monitoring for grid networks. In Sergei Gorbachev and Marco Danelutto, editors, *Integrated Research in GRID Computing*, page 15. Springer, 2007. Available from: http://www.di.unipi.it/~augusto/papers/cur_2005_e.pdf.
- [50] Augusto Ciuffoletti. The wandering token: Congestion avoidance of a shared resource. In Z. Nemeth P. Kacsuk, T. Fahringer, editor, *Distributed and Parallel Systems*, pages 3–12. Springer, 2007. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_g.pdf.

- [51] Augusto Ciuffoletti. Secure token passing at application level. In *1st International Workshop on Security Trust and Privacy in Grid Systems*, page 6, Nice, September 2007. submitted to FGCS through GRID-STP. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_e.pdf.
- [52] Augusto Ciuffoletti. Performance stabilization of a token based epidemic diffusion. In *SSS workshop*, Paris, November 2007. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_f.pdf.
- [53] Augusto Ciuffoletti, Papadogiannakis Antonis, and Michalis Polychronakis. Network monitoring session description. Technical Report TR-0087, CoreGRID Project, July 2007. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_c.pdf.
- [54] Augusto Ciuffoletti, Antonio Congiusta, Gracjan Jankowski, Michal Jankowski, Norbert Meyer, and Ondrej Krajicek. Grid Infrastructure Architecture - a modular approach from CoreGRID. In *Proceedings of the 3rd International Conference on Web Information Systems and Technologies*, pages 46–54, Barcelona - Spain, March 2007. CoreGRID milestone M.IRWM.05. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_a.pdf, doi:10.1007/978-3-540-68262-2.
- [55] Augusto Ciuffoletti, Antonio Congiusta, Gracjan Jankowski, Michal Jankowski, Norbert Meyer, and Ondrej Krajicek. Grid infrastructure architecture: a modular approach from coregrid. Technical Report TR-0089, CoreGRID Project, August 2007. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_d.pdf.
- [56] Augusto Ciuffoletti and Michalis Polychronakis. *Architecture of a Network Monitoring Element*, volume 4375 of *Lecture Notes in Computer Science*, chapter 2, pages 4–14. Springer, 2007. Available from: http://www.di.unipi.it/~augusto/papers/cur_2006_e.pdf, doi:10.1007/978-3-540-72337-0.
- [57] Javier Bustos-Jimenez, Nicolas Bersano, Elisa Schaeffer, Jose Miguel Piquer, Alexandru Iosup, and Augusto Ciuffoletti. Estimating the size of peer-to-peer networks using Lambert’s W function. In Sergei Gorlatch, Paraskevi Fragopoulou, and Thierry Priol, editors, *Grid Computing - Achievements and Prospects*, pages 61–72. Springer, 2008. Available from: http://www.di.unipi.it/~augusto/papers/cur_2008_d.pdf, doi:10.1007/978-0-387-78446-5.
- [58] Javier Bustos-Jimenez, Nicolas Bersano, Elisa Schaeffer, Jose Miguel Piquer, Alexandru Iosup, and Augusto Ciuffoletti. Estimating the size of peer-to-peer networks using Lambert’s W function. In Sergei Gorlatch, Paraskevi Fragopoulou, and Thierry Priol, editors, *Coregrid Integration Workshop*, pages 51–62. Springer, 2008. Available from: http://www.di.unipi.it/~augusto/papers/cur_2008_d.pdf.

- [59] Augusto Ciuffoletti, Antonio Congiusta, Gracjan Jankowski, Michal Jankowski, Norbert Meyer, and Ondrej Krajicek. Grid Infrastructure Architecture - a modular approach from CoreGRID. In Joaquim Felipe and Jos Cordeiro, editors, *Third International Conference, WEBIST 2007, Barcelona, Spain, March 3-6, 2007, Revised Selected Papers*, volume 8 of *Lecture Notes in Business Information Processes*, pages 72–84. Springer, 2008. CoreGRID milestone M.IRWM.05. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_h.pdf, doi:10.1007/978-3-540-68262-2.
- [60] Augusto Ciuffoletti, Yari Marchetti, Antonis Papadogiannakis, and Michalis Polichronakis. End-to-end network monitoring infrastructure. CoreGRID Report TR-0126, CoreGRID Institute on Grid Information, Resource and Workflow Monitoring Services, February 2008. Available from: http://www.di.unipi.it/~augusto/papers/cur_2008_f.pdf.
- [61] Augusto Ciuffoletti, Yari Marchetti, Antonis Papadogiannakis, and Michalis Polychronakis. Prototype implementation of a demand driven network monitoring architecture. In Sergei Gorlatch, Paraskevi Fragopoulou, and Thierry Priol, editors, *Grid Computing - Achievements and Prospects*, volume 9, chapter 8, pages 85–97. Springer, 2008. Available from: http://www.di.unipi.it/~augusto/papers/cur_2008_b.pdf, doi:10.1007/978-0-387-09456-4.
- [62] Augusto Ciuffoletti, Yari Marchetti, Antonis Papadogiannakis, and Michalis Polychronakis. Prototype implementation of a demand driven network monitoring architecture. In *Preceedings of the CoreGRID Integration Workshop*, Hersonissos (Greece), April 2008. Available through www.slideshare.net. Available from: http://www.di.unipi.it/~augusto/papers/cur_2008_a.pdf.
- [63] Augusto Ciuffoletti, Antonis Papadogiannakis, and Michalis Polychronakis. Network monitoring session description. In Domenico Talia, Ramin Yahyapour, and Wolfgang Ziegler, editors, *Grid Middleware and Services - Challenges and Solutions*, pages 79–93. Springer, 2008. Available from: http://www.di.unipi.it/~augusto/papers/cur_2007_b.pdf, doi:10.1007/978-0-387-78446-5.
- [64] Augusto Ciuffoletti. Collision avoidance for Delay-Req messages in broadcast media. In *International IEEE Symposium on Precision Clock Synchronization for Measurement, Control and Communication*, 2009. Available from: http://www.di.unipi.it/~augusto/papers/cur_2009_b.pdf.
- [65] Augusto Ciuffoletti and Ali Asim. Scalable concurrency control in a dynamic membership – experimental results. In R. Yahyapour N. Meyer, D. Talia, editor, *Grid and Services Evolution*, chapter 15, pages 205–214. Springer, 2009. Available from: http://www.di.unipi.it/~augusto/papers/cur_2008_e.pdf, doi:10.1007/978-0-387-85966-8.

- [66] Augusto Ciuffoletti. The Wandering Token: Congestion avoidance of a shared resource. *Future Generation Computing Systems*, 26(3):473–478, March 2010. doi:10.1016/j.future.2009.05.002.
- [67] Augusto Ciuffoletti. Secure token passing at application level. *Future Generation Computer Systems*, 2010. doi:10.1016/j.future.2009.12.003.
- [68] Augusto Ciuffoletti. Monitoring a virtual network infrastructure: An iaas perspective. *ACM CComputer Communications Review*, 40(5):47–52, 2010.
- [69] Augusto Ciuffoletti. Preventing the collision of requests from slave clocks in the Precision Time Protocol (PTP). *IEEE Transactions on Instrumentation and Measurements*, 2010. Accepted for publication.