

# Publication list

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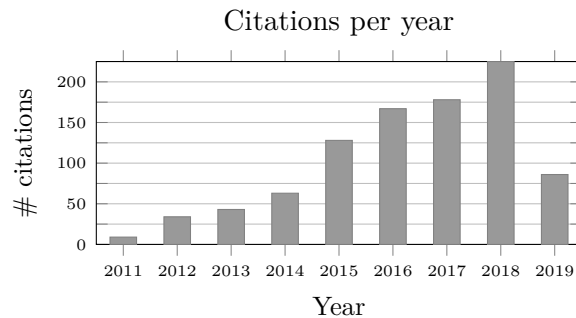
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## Citation summary

Source: Google scholar (20/06/2019)

- Number of citations: 940
- h-index: 17
- i10-index: 28
- g-index: 27



## Books and book chapters

- [B4] V. Gulisano, M. Papatriantafidou, and A. V. Papadopoulos. “Elasticity”. In: *Encyclopedia of Big Data Technologies*. Ed. by S. Sakr and A. Y. Zomaya. Cham: Springer International Publishing, 2019, pp. 1–7. DOI: 10.1007/978-3-319-63962-8\_191-1.
- [B3] M. Maggio, T. Abdelzaher, L. Esterle, H. Giese, J. O. Kephart, O. J. Mengshoel, A. V. Papadopoulos, A. Robertsson, and K. Wolter. “Self-adaptation for Individual Self-aware Computing Systems”. In: *Self-Aware Computing Systems*. Ed. by S. Kounev, J. O. Kephart, A. Milenkoski, and X. Zhu. Cham: Springer International Publishing, 2017, pp. 375–399. DOI: 10.1007/978-3-319-47474-8\_12.
- [B2] A. V. Papadopoulos and M. Prandini. *Fondamenti di Automatica: Esercizi*. (In Italian). Pearson Italia, 2016.
- [B1] A. Leva, M. Maggio, A. V. Papadopoulos, and F. Terraneo. *Control-based operating system design*. Control Engineering Series. IET, 2013. DOI: 10.1049/PBCE089E.

## International Journals

- [J23] D. Ioli, A. Falsone, A. V. Papadopoulos, and M. Prandini. “A compositional modeling framework for the optimal energy management of a district network”. In: *Journal of Process Control* 74 (2019), pp. 160–176. DOI: 10.1016/j.jprocont.2017.10.005.
- [J22] K. Angelopoulos, A. V. Papadopoulos, V. E. S. Souza, and J. Mylopoulos. “Engineering Self-Adaptive Software Systems: From Requirements to Model Predictive Control”. In: *ACM Transactions on Autonomous and Adaptive Systems* 13.1 (2018), 1:1–1:27. DOI: 10.1145/3105748.
- [J21] A. Ilyushkin, A. Ali-Eldin, N. Herbst, A. Bauer, A. V. Papadopoulos, D. Epema, and A. Iosup. “An Experimental Performance Evaluation of Autoscalers for Complex Workflows”. In: *ACM Transactions on Modeling and Performance Evaluation of Computing Systems (TOMPECS)* 3.2 (2018), 8:1–8:32. DOI: 10.1145/3164537.

- [J20] S. Mubeen, S. Abbaspour Asadollah, A. V. Papadopoulos, M. Ashjaei, H. Pei-Breivold, and M. Behnam. “Management of Service Level Agreements for Cloud Services in IoT: A Systematic Mapping Study”. In: *IEEE Access* 6.1 (2018), pp. 30184–30207. DOI: 10.1109/ACCESS.2017.2744677.
- [J19] A. V. Papadopoulos, F. Terraneo, A. Leva, and M. Prandini. “Switched control for quantized feedback systems: invariance and limit cycles analysis”. In: *IEEE Transactions on Automatic Control* 63.11 (2018), pp. 3775–3786. DOI: 10.1109/TAC.2018.2797246.
- [J18] F. Terraneo, A. V. Papadopoulos, A. Leva, and M. Prandini. “FLOPSYNC-QACS: Quantization-aware Clock Synchronization for Wireless Sensor Networks”. In: *SIGBED Rev.* 14.4 (2018), pp. 33–38. DOI: 10.1145/3177803.3177809.
- [J17] A. Filieri, M. Maggio, K. Angelopoulos, N. D’Ippolito, I. Gerostathopoulos, A. B. Hempel, H. Hoffmann, P. Jamshidi, E. Kalyvianaki, C. Klein, F. Krikava, S. Misailovic, A. V. Papadopoulos, S. Ray, A. M. Sharifloo, S. Shevtsov, M. Ujma, and T. Vogel. “Control Strategies for Self-Adaptive Software Systems”. In: *ACM Transactions on Autonomous and Adaptive Systems* 11.4 (Feb. 2017), 24:1–24:31. DOI: 10.1145/3024188.
- [J16] F. Terraneo, A. V. Papadopoulos, A. Leva, and M. Prandini. “FLOPSYNC-QACS: Quantization-Aware Clock Synchronization for Wireless Sensor Networks”. In: *Journal of Systems Architecture* 80 (2017), pp. 77–84. DOI: 10.1016/j.sysarc.2017.09.006.
- [J15] A. Leva, F. Terraneo, L. Rinaldi, A. V. Papadopoulos, and M. Maggio. “High-Precision Low-Power Wireless Nodes’ Synchronization via Decentralized Control”. In: *IEEE Transactions on Control Systems Technology* 24.4 (2016), pp. 1279–1293. DOI: 10.1109/TCST.2015.2483559.
- [J14] A. V. Papadopoulos, A. Ali-Eldin, K.-E. Årzén, J. Tordsson, and E. Elmroth. “PEAS: A Performance Evaluation Framework for Auto-Scaling Strategies in Cloud Applications”. In: *ACM Transactions on Modeling and Performance Evaluation of Computing Systems (TOMPECS)* 1.4 (2016), 15:1–15:31. DOI: 10.1145/2930659.
- [J13] A. V. Papadopoulos, L. Bascetta, and G. Ferretti. “Generation of Human Walking Paths”. In: *Autonomous Robots* 40.1 (2016), pp. 59–75. DOI: 10.1007/s10514-015-9443-2.
- [J12] A. V. Papadopoulos, C. Klein, M. Maggio, J. Dürango, M. Dellkrantz, F. Hernández-Rodríguez, E. Elmroth, and K.-E. Årzén. “Control-Based Load-Balancing Techniques: Analysis and Performance Evaluation via a Randomized Optimization Approach”. In: *Control Engineering Practice* 52 (2016), pp. 24–34. DOI: 10.1016/j.conengprac.2016.03.020.
- [J11] A. V. Papadopoulos and M. Prandini. “Model reduction of switched affine systems”. In: *Automatica* 70 (2016), pp. 57–65. DOI: 10.1016/j.automatica.2016.03.019.
- [J10] A. V. Papadopoulos and A. Leva. “A model partitioning method based on dynamic decoupling for the efficient simulation of multibody systems”. In: *Multibody System Dynamics* 34.2 (2015), pp. 163–190. DOI: 10.1007/s11044-014-9415-x.
- [J9] A. V. Papadopoulos, M. Maggio, A. Leva, and E. Bini. “Hard Real-Time Guarantees in Feedback-based Resource Reservations”. In: *Real-Time Systems* 51.3 (2015), pp. 221–246. DOI: 10.1007/s11241-015-9224-1.
- [J8] A. V. Papadopoulos, M. Maggio, F. Terraneo, and A. Leva. “A Dynamic Modelling Framework for Control-based Computing System Design”. In: *Mathematical and Computer Modelling of Dynamical Systems* 21.3 (2015). (invited paper), pp. 251–271. DOI: 10.1080/13873954.2014.942785.
- [J7] A. V. Papadopoulos and A. Leva. “Automating efficiency-targeted approximations in modelling and simulation tools: dynamic decoupling and mixed-mode integration”. In: *SIMULATION: Transactions of The Society for Modeling and Simulation International* 90.10 (2014), pp. 1158–1176. DOI: 10.1177/0037549714547296.
- [J6] F. Dercole, M. De Carli, F. Della Rossa, and A. V. Papadopoulos. “Overpunishing is not necessary to fix cooperation in voluntary public goods games”. In: *Journal of Theoretical Biology* 326.0 (2013), pp. 70–81. DOI: 10.1016/j.jtbi.2012.11.034.

- [J5] A. Leva and A. V. Papadopoulos. “Tuning of event-based industrial controllers with simple stability guarantees”. In: *Journal of Process Control* 23.9 (2013), pp. 1251–1260. DOI: 10.1016/j.jprocont.2013.07.010.
- [J4] M. Maggio, A. V. Papadopoulos, and A. Leva. “On the Use of Feedback Control in the Design of Computing System Components”. In: *Asian Journal of Control* 15.1 (2013). (invited paper), pp. 31–40. DOI: 10.1002/asjc.509.
- [J3] M. Maggio, H. Hoffmann, A. V. Papadopoulos, J. Panerati, M. D. Santambrogio, A. Agarwal, and A. Leva. “Comparison of Decision Making Strategies for Self-Optimization in Autonomic Computing Systems”. In: *ACM Transactions on Autonomous and Adaptive Systems* 7.4 (2012), 36:1–36:32. DOI: 10.1145/2382570.2382572.
- [J2] A. V. Papadopoulos, M. Maggio, S. Negro, and A. Leva. “General control-theoretical framework for online resource allocation in computing systems”. In: *IET Control Theory & Applications* 6.11 (2012), pp. 1594–1602. DOI: 10.1049/iet-cta.2011.0632.
- [J1] A. Leva, S. Negro, and A. V. Papadopoulos. “PI/PID autotuning with contextual model parametrisation”. In: *Journal of Process Control* 20.4 (2010), pp. 452–463. DOI: 10.1016/j.jprocont.2010.01.005.

## International Conferences

- [C48] B. Miloradović, B. Cürüklü, M. Ekström, and A. V. Papadopoulos. “Extended Colored Traveling Salesperson for Modeling Multi-Agent Mission Planning Problems”. In: *International Conference on Operations Research and Enterprise Systems*. ICORES. INSTICC. Prague, Czech Republic, 2019, pp. 237–244. DOI: 10.5220/0007309002370244.
- [C47] W. Wang, D. Mosse, and A. V. Papadopoulos. “Packet Priority Assignment for Wireless Control Systems of Multiple Physical Systems”. In: *22nd IEEE International Symposium on Real-Time Distributed Computing*. ISORC. Valencia, Spain, 2019, pp. 143–150. DOI: 10.1109/ISORC.2019.00036.
- [C46] H. R. Faragardi, S. Dehnavi, M. Kargahi, A. V. Papadopoulos, and T. Nolte. “A Time-Predictable Fog-Integrated Cloud Framework: One Step Forward in the Deployment of a Smart Factory”. In: *The CSI International Symposium on Real-Time and Embedded Systems and Technologies*. RTEST. Teheran, Iran, 2018, pp. 54–62. DOI: 10.1109/RTEST.2018.8397079.
- [C45] M. Frasheri, B. Cürüklü, M. Ekström, and A. V. Papadopoulos. “Adaptive Autonomy in a Search and Rescue Scenario”. In: *Proceedings of the 12th IEEE International Conference on Self-Adaptive and Self-Organizing Systems*. SASO. Trento, Italy, 2018, pp. 150–155. DOI: 10.1109/SASO.2018.00026.
- [C44] A. Leva, S. Seva, and A. V. Papadopoulos. “Progress Rate Control for Computer Applications”. In: *European Control Conference*. Limassol, Cyprus, 2018, pp. 3173–3178. DOI: 10.23919/ECC.2018.8550414.
- [C43] A. V. Papadopoulos, E. Bini, S. Baruah, and A. Burns. “AdaptMC: A Control-Theoretic Approach for Achieving Resilience in Mixed-Criticality Systems”. In: *30th Euromicro Conference on Real-Time Systems (ECRTS 2018)*. Ed. by S. Altmeyer. Vol. 106. Leibniz International Proceedings in Informatics (LIPIcs). Barcelona, Spain: Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2018, 14:1–14:22. DOI: 10.4230/LIPIcs.ECRTS.2018.14. URL: <http://drops.dagstuhl.de/opus/volltexte/2018/8989>. Acceptance rate: 33%.
- [C42] A. V. Papadopoulos and M. Maggio. “Challenges in High Performance Big Data Frameworks”. In: *2018 International Conference on High Performance Computing Simulation (HPCS)*. AHPC. Orléans, France, 2018, pp. 153–156. DOI: 10.1109/HPCS.2018.00039.

- [C41] A. Souza, A. V. Papadopoulos, L. Tomás Bolivar, D. Gilbert, and J. Tordsson. “Hybrid Adaptive Checkpointing for Virtual Machine Fault Tolerance”. In: *IEEE International Conference on Cloud Engineering*. IC2E 2018. Orlando, Florida, USA, 2018, pp. 12–22. DOI: 10.1109/IC2E.2018.00023. Acceptance rate: 19%. (**Best paper award candidate**).
- [C40] V. Struhár, A. V. Papadopoulos, and M. Behnam. “Fog Computing for Adaptive Human-robot Collaboration: Work-in-progress”. In: *Proceedings of the International Conference on Embedded Software*. EMSOFT. Turin, Italy: IEEE Press, 2018, 14:1–14:2. URL: <http://dl.acm.org/citation.cfm?id=3283535.3283549>.
- [C39] V. Gulisano, A. V. Papadopoulos, Y. Nikolakopoulos, M. Papatriantafidou, and P. Tsigas. “Performance modeling of stream joins”. In: *Proceedings of the 11th ACM International Conference on Distributed and Event-based Systems*. DEBS ’17. Barcelona, Spain: ACM, 2017, pp. 191–202. DOI: 10.1145/3093742.3093923. Acceptance rate: 24%.
- [C38] A. Ilyushkin, A. Ali-Eldin, N. Herbst, A. V. Papadopoulos, B. Ghit, D. Epema, and A. Iosup. “An Experimental Performance Evaluation of Autoscaling Algorithms for Complex Workflows”. In: *Proceedings of the 8th ACM/SPEC on International Conference on Performance Engineering*. ICPE ’17. L’Aquila, Italy: ACM, 2017, pp. 75–86. DOI: 10.1145/3030207.3030214. (**Best paper award candidate**).
- [C37] E. B. Lakew, A. V. Papadopoulos, M. Maggio, C. Klein, and E. Elmroth. “KPI-agnostic Control for Fine-Grained Vertical Elasticity”. In: *17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing*. CCGRID ’17. Madrid, Spain, 2017, pp. 589–598. DOI: 10.1109/CCGRID.2017.71. Acceptance rate: 24%.
- [C36] A. Leva and A. V. Papadopoulos. “Modelling and Control of Big Data Frameworks”. In: *Proceedings of the 20th IFAC World Congress*. Toulouse, France: IFAC, 2017, pp. 6110–6115. DOI: 10.1016/j.ifacol.2017.08.2017.
- [C35] M. Maggio, A. V. Papadopoulos, A. Filieri, and H. Hoffmann. “Automated Control of Multiple Software Goals using Multiple Actuators”. In: *11th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering*. ESEC/FSE 2017. Paderborn, Germany, 2017, pp. 373–384. DOI: 10.1145/3106237.3106247.
- [C34] M. Maggio, A. V. Papadopoulos, A. Filieri, and H. Hoffmann. “Self-Adaptive Video Encoder: Comparison of Multiple Adaptation Strategies Made Simple”. In: *12th International Symposium on Software Engineering for Adaptive and Self-Managing Systems*. SEAMS ’17. Buenos Aires, Argentina, 2017, pp. 123–128. DOI: 10.1109/SEAMS.2017.16. (**Best artefact award**).
- [C33] G. A. Moreno, A. V. Papadopoulos, K. Angelopoulos, J. Cámara, and B. Schmerl. “Comparing Model-Based Predictive Approaches to Self-Adaptation: CobRA and PLA”. In: *12th International Symposium on Software Engineering for Adaptive and Self-Managing Systems*. SEAMS ’17. Buenos Aires, Argentina, 2017, pp. 42–53. DOI: 10.1109/SEAMS.2017.2. Acceptance rate: 23% (**Best paper award candidate**).
- [C32] A. V. Papadopoulos, S. Abbaspour Asadollah, M. Ashjaei, S. Mubeen, H. Pei-Breivold, and M. Behnam. “SLAs for Industrial IoT: Mind the Gap”. In: *4th International Symposium on Intercloud and IoT*. ICI ’17. Prague, Czech Republic, 2017, pp. 75–78. DOI: 10.1109/W-FiCloud.2017.9.
- [C31] A. V. Papadopoulos, J. Krzywda, E. Elmroth, and M. Maggio. “Power-aware cloud brownout: Response time and power consumption control”. In: *Decision and Control (CDC), 2017 IEEE 56th Annual Conference on*. Melbourne, Australia, 2017, pp. 2686–2691. DOI: 10.1109/CDC.2017.8264049.
- [C30] A. V. Papadopoulos, M. Maggio, A. Leva, and E. Bini. “Hard Real-Time Guarantees in Feedback-based Resource Reservations”. In: *38th IEEE Real-Time Systems Symposium (journal never presented on conference)*. Paris, France, 2017.

- [C29] W. Tärneberg, A. V. Papadopoulos, A. Mehta, J. Tordsson, and M. Kihl. “Distributed Approach to the Holistic Resource Management of a Mobile Cloud Network”. In: *1st International Conference on Fog and Edge Computing*. IC FEC ’17. Madrid, Spain, 2017, pp. 51–60. DOI: 10.1109/ICFEC.2017.10. Acceptance rate: 24%.
- [C28] A. Ali-Eldin, A. Ilyushkin, B. Ghit, N. Herbst, A. V. Papadopoulos, and A. Iosup. “Which Cloud Auto-Scaler Should I Use for My Application?: Benchmarking Auto-Scaling Algorithms”. In: *Proceedings of the 7th ACM/SPEC on International Conference on Performance Engineering*. ICPE 16. Delft, The Netherlands: ACM, 2016, pp. 131–132. DOI: 10.1145/2851553.2858677.
- [C27] K. Angelopoulos, A. V. Papadopoulos, V. E. S. Souza, and J. Mylopoulos. “Model Predictive Control for Software Systems with CobRA”. In: *11th International Symposium on Software Engineering for Adaptive and Self-Managing Systems*. SEAMS 16. 2016. DOI: 10.1145/2897053.2897054. (**Best paper award candidate**).
- [C26] D. Desmeurs, C. Klein, A. V. Papadopoulos, and J. Tordsson. “Event-Driven Application Brownout: Reconciling High Utilization and Low Tail Response Times”. In: *2015 IEEE International Conference on Cloud and Autonomic Computing (ICAC)*. Cambridge, MA, USA, 2015, pp. 1–12. DOI: 10.1109/ICAC.2015.25.
- [C25] A. Filieri, M. Maggio, K. Angelopoulos, N. D’Ippolito, I. Gerostathopoulos, A. B. Hempel, H. Hoffmann, P. Jamshidi, E. Kalyvianaki, C. Klein, F. Krikava, S. Misailovic, A. V. Papadopoulos, S. Ray, A. M. Sharifloo, S. Shevtsov, M. Ujma, and T. Vogel. “Software Engineering Meets Control Theory”. In: *10th International Symposium on Software Engineering for Adaptive and Self-Managing Systems*. SEAMS 15. Florence, Italy, 2015, pp. 71–82. DOI: 10.1109/SEAMS.2015.12.
- [C24] A. Leva and A. V. Papadopoulos. “Disturbance rejection in autotuners: an assessment method and a rule proposal”. In: *American Control Conference (ACC)*. Chicago, IL, USA, 2015, pp. 2876–2881. DOI: 10.1109/ACC.2015.7171171.
- [C23] A. V. Papadopoulos, R. Carone, M. Maggio, and A. Leva. “A control-theoretical approach to thread scheduling for multicore processors”. In: *Control Applications (CCA), 2015 IEEE Conference on*. Sydney, Australia: IEEE, 2015, pp. 1103–1110. DOI: 10.1109/CCA.2015.7320760.
- [C22] A. V. Papadopoulos and M. Maggio. “Virtual Machine Migration in Cloud Infrastructures: Problem Formalization and Policies Proposal”. In: *Decision and Control (CDC), 2015 IEEE 54th Annual Conference on*. Osaka, Japan: IEEE, 2015, pp. 6698–6705. DOI: 10.1109/CDC.2015.7403274.
- [C21] F. Terraneo, A. Leva, S. Seva, M. Maggio, and A. V. Papadopoulos. “Reverse Flooding: exploiting radio interference for efficient propagation delay compensation in WSN clock synchronization”. In: *Proceedings of the 36th IEEE Real-Time Systems Symposium*. RTSS. San Antonio, TX, USA, 2015, pp. 175–184. DOI: 10.1109/RTSS.2015.24. (**Best paper award candidate**).
- [C20] J. Dürango, M. Dellkrantz, M. Maggio, C. Klein, A. V. Papadopoulos, F. Hernández-Rodríguez, E. Elmroth, and K.-E. Årzén. “Control-theoretical load-balancing for cloud applications with brownout”. In: *Decision and Control (CDC), 2014 IEEE 53rd Annual Conference on*. Los Angeles, CA, USA: IEEE, 2014, pp. 5320–5327. DOI: 10.1109/CDC.2014.7040221.
- [C19] C. Klein, A. V. Papadopoulos, M. Dellkrantz, J. Dürango, M. Maggio, K.-E. Årzén, F. Hernández-Rodríguez, and E. Elmroth. “Improving Cloud Service Resilience using Brownout-Aware Load-Balancing”. In: *Reliable Distributed Systems (SRDS), 2014 IEEE 33rd International Symposium on*. Nara, Japan: IEEE, 2014, pp. 31–40. DOI: 10.1109/SRDS.2014.14.
- [C18] A. Leva, D. Mastrandrea, M. Bonvini, and A. V. Papadopoulos. “Object-Oriented Modelling and Simulation of Air Flow in Data Centres Based on a Quasi-3D Approach for Energy Optimisation”. In: *Utility and Cloud Computing (UCC), 2014 IEEE/ACM 7th International Conference on*. London, UK: IEEE, 2014, pp. 554–559. DOI: 10.1109/UCC.2014.85.

- [C17] A. V. Papadopoulos, L. Bascetta, and G. Ferretti. “A Comparative Evaluation of Human Motion Planning Policies”. In: *Proceedings of the 19th IFAC World Congress*. Vol. 19. Cape Town, South Africa: IFAC, 2014, pp. 12299–12304. DOI: 10.3182/20140824-6-ZA-1003.01898.
- [C16] A. V. Papadopoulos, F. Casella, and A. Leva. “Model separability indices for efficient dynamic simulation”. In: *Proceedings of the 19th IFAC World Congress*. Vol. 19. Cape Town, South Africa: IFAC, 2014, pp. 10796–10801. DOI: 10.3182/20140824-6-ZA-1003.01940.
- [C15] A. V. Papadopoulos and M. Prandini. “Model reduction of switched affine systems: a method based on balanced truncation and randomized optimization”. In: *Proceedings of the 17th International Conference on Hybrid Systems: Computation and Control*. HSCC ’14. Berlin, Germany: ACM, 2014, pp. 113–122. DOI: 10.1145/2562059.2562131.
- [C14] F. Terraneo, L. Rinaldi, M. Maggio, A. V. Papadopoulos, and A. Leva. “FLOPSYNC-2: efficient monotonic clock synchronisation”. In: *Proceedings of the 35th IEEE Real-Time Systems Symposium*. RTSS. Rome, Italy: IEEE, 2014, pp. 11–20. DOI: 10.1109/RTSS.2014.14. (**Best paper award candidate**).
- [C13] A. Leva and A. V. Papadopoulos. “Teaching a conscious use of PI/PID tuning rules”. In: *10th IFAC Symposium on Advances in Control Education (ACE)*. Vol. 10. Sheffield, UK: IFAC, 2013, pp. 25–30. DOI: 10.3182/20130828-3-UK-2039.00007.
- [C12] A. Leva, A. V. Papadopoulos, and M. Maggio. “A general control-theoretical methodology for runtime resource allocation in computing systems”. In: *Decision and Control (CDC), 2013 IEEE 52nd Annual Conference on*. Florence, Italy: IEEE, 2013, pp. 3487–3492. DOI: 10.1109/CDC.2013.6760418.
- [C11] A. V. Papadopoulos, J. Åkesson, F. Casella, and A. Leva. “Automatic Partitioning and Simulation of Weakly Coupled Systems”. In: *Decision and Control (CDC), 2013 IEEE 52nd Annual Conference on*. Florence, Italy: IEEE, 2013, pp. 3172–3177. DOI: 10.1109/CDC.2013.6760367.
- [C10] A. V. Papadopoulos, L. Bascetta, and G. Ferretti. “Generation of Human Walking Paths”. In: *Intelligent Robots and Systems (IROS), 2013 IEEE/RSJ International Conference on*. Tokyo, Japan: IEEE, 2013, pp. 1676–1681. DOI: 10.1109/IROS.2013.6696574.
- [C9] A. V. Papadopoulos and A. Leva. “Laboratories over the network: from remote to mobile”. In: *10th IFAC Symposium on Advances in Control Education (ACE)*. Vol. 10. Sheffield, UK: IFAC, 2013, pp. 84–89. DOI: 10.3182/20130828-3-UK-2039.00025.
- [C8] M. Maggio, F. Terraneo, A. V. Papadopoulos, and A. Leva. “A PI-based control structure as an operating system scheduler”. In: *Proceedings IFAC Conference on Advances in PID Control*. Vol. 2. Brescia, Italy: IFAC, 2012, pp. 329–334. DOI: 10.3182/20120328-3-IT-3014.00056.
- [C7] A. V. Papadopoulos and A. Leva. “Antiwindup-aware PI autotuning”. In: *Proceedings IFAC Conference on Advances in PID Control*. Vol. 2. Brescia, Italy: IFAC, 2012, pp. 554–559. DOI: 10.3182/20120328-3-IT-3014.00094.
- [C6] A. V. Papadopoulos, M. Maggio, F. Casella, and J. Åkesson. “Function inlining in Modelica models”. In: *Proceedings of the 7th International Conference of Mathematical Modelling, MATHMOD’12*. Vol. 7. Vienna, Austria: IFAC, 2012, pp. 1091–1094. DOI: 10.3182/20120215-3-AT-3016.00193.
- [C5] A. V. Papadopoulos, M. Maggio, and A. Leva. “Control and design of computing systems: what to model and how”. In: *Proceedings of the 7th International Conference of Mathematical Modelling, MATHMOD’12*. Vol. 7. Vienna, Austria: IFAC, 2012, pp. 102–107. DOI: 10.3182/20120215-3-AT-3016.00018.
- [C4] P. Cremonesi, F. Garzotto, S. Negro, A. V. Papadopoulos, and R. Turrin. “Comparative evaluation of recommender system quality”. In: *CHI EA ’11: Proceedings of the 2011 annual conference extended abstracts on Human factors in computing systems*. Vancouver, BC, Canada: ACM, 2011, pp. 1927–1932. DOI: 10.1145/1979742.1979896.

- [C3] P. Cremonesi, F. Garzotto, S. Negro, A. V. Papadopoulos, and R. Turrin. “Looking for “Good” Recommendations: A Comparative Evaluation of Recommender Systems”. In: *INTERACT’11: Proceedings of the 13th IFIP TC 13 international conference on Human-computer interaction*. Ed. by P. Campos, N. Graham, J. Jorge, N. Nunes, P. Palanque, and M. Winckler. Vol. 6948. Lecture Notes in Computer Science. Lisbon, Portugal: Springer-Verlag, 2011, pp. 152–168. DOI: 10.1007/978-3-642-23765-2\_11.
- [C2] A. V. Papadopoulos, M. Maggio, S. Negro, and A. Leva. “Enhancing feedback process scheduling via a predictive control approach”. In: *Proceedings of the 18th IFAC World Congress*. Vol. 18. Milan, Italy: IFAC, 2011, pp. 13522–13527. DOI: 10.3182/20110828-6-IT-1002.01156.
- [C1] A. Leva, S. Negro, and A. V. Papadopoulos. “PI(D) Tuning with Contextual Model Identification”. In: *Proceedings of the European Control Conference (ECC ’09)*. Budapest, Hungary, 2009, pp. 4013–4018.

## International Workshops

- [W8] S. M. Salman, V. Struhár, A. V. Papadopoulos, M. Behnam, and T. Nolte. “Fogification of Industrial Robotic Systems: Research Challenges”. In: *Proceedings of the Workshop on Fog Computing and the IoT: Fog-IoT*. Montreal, Quebec, Canada: ACM, 2019, pp. 41–45. DOI: 10.1145/3313150.3313225.
- [W7] A. Čaušević, A. V. Papadopoulos, and M. Sirjani. “Towards a Framework for Safe and Secure Adaptive Collaborative Systems”. In: *9th IEEE International Workshop on Industrial Experience in Embedded Systems Design*. IEESD. (accepted). Milwaukee, Wisconsin, USA, 2019.
- [W6] A. Ilyushkin, A. Ali-Eldin, N. Herbst, A. V. Papadopoulos, G. Bogdan, D. Epema, and A. Iosup. “An Experimental Performance Evaluation of Autoscaling Algorithms for Complex Workflows”. In: *ACM Symposium on Cloud Computing 2016 (SOCC 2016)*. Santa Clara, CA, USA, 2016.
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## Other Publications

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