

Publication list

Alessandro Vittorio Papadopoulos

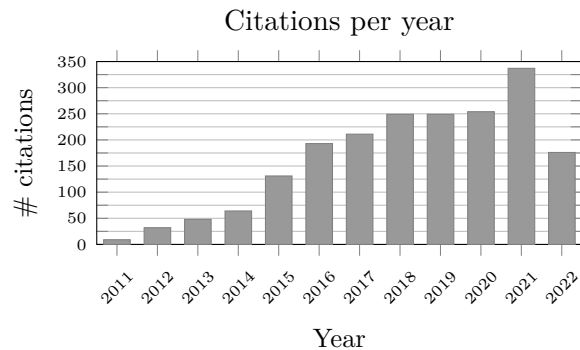
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Citation summary

Source: Google scholar (20/07/2022)

- Number of citations: 2027
- h-index: 25
- i10-index: 48
- i100-index: 4
- g-index: 40



Books and book chapters (Year ▼, Author ▲)

- [B1] S. Kounev, C. Abad, I. T. Foster, N. Herbst, A. Iosup, S. Al-Kiswany, A. Ali-Eldin Hassan, B. Balis, A. Bauer, A. B. Bondi, K. Chard, R. L. Chard, R. Chatley, A. A. Chien, A. J. J. Davis, J. Donkervliet, S. Eismann, E. Elmroth, N. Ferrier, H.-A. Jacobsen, P. Jamshidi, G. Kousiouris, P. Leitner, P. Garcia Lopez, M. Maggio, M. Malawski, B. Metzler, V. Muthusamy, A. V. Papadopoulos, P. Patros, G. Pierre, O. F. Rana, R. P. Ricci, J. Scheuner, M. Sedaghat, M. Shahrads, P. Shenoy, J. Spillner, D. Taibi, D. Thain, A. Trivedi, A. Uta, V. van Beek, E. van Eyk, A. van Hoorn, S. Vasani, F. Wamser, G. Wirtz, and V. Yussupov. “Toward a Definition for Serverless Computing”. In: *Serverless Computing (Dagstuhl Seminar 21201)*. Ed. by C. Abad, I. T. Foster, N. Herbst, and A. Iosup. Vol. 11. Dagstuhl, Germany: Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2021, pp. 34–93. DOI: 10.4230/DagRep.11.4.34.
- [B2] V. Gulisano, M. Papatriantafylou, and A. V. Papadopoulos. “Elastic Resource Management in Stream Processing”. In: *Encyclopedia of Big Data Technologies (2nd edition)*. Ed. by S. Sakr and A. Y. Zomaya. Cham: Springer International Publishing, 2020.
- [B3] A. V. Papadopoulos and M. Prandini. *Fondamenti di Automatica: Esercizi (2 Edizione)*. (In Italian). Pearson Italia, 2020.
- [B4] V. Gulisano, M. Papatriantafylou, 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.
- [B5] 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.
- [B6] A. V. Papadopoulos and M. Prandini. *Fondamenti di Automatica: Esercizi*. (In Italian). Pearson Italia, 2016.

- [B7] 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 (Year ▼, Author ▲)

- [J1] V. Gulisano, H. Najdataei, Y. Nikolakopoulos, A. V. Papadopoulos, M. Papatriantafilou, and P. Tsigas. “STRETCH: Virtual Shared-Nothing Parallelism for Scalable and Elastic Stream Processing”. In: *IEEE Transactions on Parallel and Distributed Systems* (2022), pp. 1–18. DOI: 10.1109/TPDS.2022.3181979.
- [J2] A. Lager, G. Spampinato, A. V. Papadopoulos, and T. Nolte. “Task Roadmaps: Speeding up Task Replanning”. In: *Frontiers in Robotics and AI* 9 (2022). DOI: 10.3389/frobt.2022.816355.
- [J3] M. Momeni, J. Relefors, A. Khatry, L. Pettersson, A. V. Papadopoulos, and T. Nolte. “Automated fabrication of reinforcement cages using a robotized production cell”. In: *Automation in Construction* 133 (2022), p. 103990. DOI: 10.1016/j.autcon.2021.103990.
- [J4] A. V. Papadopoulos, K. Agrawal, E. Bini, and S. Baruah. “Feedback-Based Resource Management for Multi-Threaded Applications”. In: *Real-Time Systems* (2022). DOI: 10.1007/s11241-022-09386-7.
- [J5] S. M. Salman, A. V. Papadopoulos, S. Mubeen, and T. Nolte. “Multi-processor scheduling of elastic applications in compositional real-time systems”. In: *Journal of Systems Architecture* (2022), p. 102358. DOI: 10.1016/j.sysarc.2021.102358.
- [J6] I. Ayala, A. V. Papadopoulos, M. Amor, and L. Fuentes. “ProDSPL: Proactive Self-Adaptation based on Dynamic Software ProductLines”. In: *Journal of Systems and Software* 175.110909 (2021). DOI: 10.1016/j.jss.2021.110909.
- [J7] B. Miloradović, B. Çürüklü, M. Ekström, and A. V. Papadopoulos. “GMP: A Genetic Mission Planner for Heterogeneous Multi-Robot System Applications”. In: *IEEE Transactions on Cybernetics* (2021). DOI: 10.1109/TCYB.2021.3070913.
- [J8] A. V. Papadopoulos, L. Versluis, A. Bauer, N. Herbst, J. von Kistowski, A. Ali-Eldin, C. L. Abad, J. N. Amaral, P. Tuma, and A. Iosup. “Methodological Principles for Reproducible Performance Evaluation in Cloud Computing”. In: *IEEE Transactions on Software Engineering* 47.8 (2021). Selected as Journal-First publication presented at ICSE 2020, pp. 1528–1543. DOI: 10.1109/TSE.2019.2927908.
- [J9] P. Patros, J. Spillner, A. V. Papadopoulos, B. Varghese, O. Rana, and S. Dustdar. “Towards Sustainable Serverless Computing”. In: *IEEE Internet Computing* 25.6 (2021), pp. 42–50. DOI: 10.1109/MIC.2021.3093105.
- [J10] S. M. Salman, A. V. Papadopoulos, S. Mubeen, and T. Nolte. “A Systematic Methodology to Migrate Complex Real-Time Software Systems to Multi-Core Platforms”. In: *Journal of Systems Architecture* 117.102087 (2021). DOI: 10.1016/j.sysarc.2021.102087.
- [J11] W. Wang, D. Mosse, and A. V. Papadopoulos. “Packet Priority Assignment for Wireless Control Systems of Multiple Physical Systems”. In: *Journal of Systems Architecture* 107 (2020), p. 101708. DOI: 10.1016/j.sysarc.2020.101708.
- [J12] 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.
- [J13] A. Leva, A. V. Papadopoulos, S. Seva, and C. Cimino. “Explicit model-based real PID tuning for efficient load disturbance rejection”. In: *Industrial & Engineering Chemistry Research* 58.51 (2019), pp. 23211–23224. DOI: 10.1021/acs.iecr.9b04198.

- [J14] 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.
- [J15] 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.
- [J16] 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.
- [J17] 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.
- [J19] 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.
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- [J21] 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.
- [J22] 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.
- [J23] 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.
- [J24] 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.
- [J25] 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.
- [J26] 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.
- [J27] 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.

- [J28] 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.
- [J29] 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.
- [J30] 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.
- [J31] 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.
- [J32] 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.
- [J33] 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 Autonomous Computing Systems”. In: *ACM Transactions on Autonomous and Adaptive Systems* 7.4 (2012), 36:1–36:32. DOI: 10.1145/2382570.2382572.
- [J34] 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.
- [J35] 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 (Year ▼, Author ▲)

- [C1] E. Bini, A. V. Papadopoulos, J. Higgins, and N. Bezzo. “Optimal Reference Tracking for Sampled-Data Control Systems”. In: *IEEE 61st Annual Conference on Decision and Control (CDC)*. (accepted). Cancún, Mexico, 2022.
- [C2] D. Bujosa Mateu, M. Ashjaei, A. V. Papadopoulos, J. Proenza, and T. Nolte. “HERMES: Heuristic Multi-queue Scheduler for TSN Time-Triggered Traffic with Zero Reception Jitter Capabilities”. In: *30th International Conference on Real-Time Networks and Systems (RTNS)*. Paris, France: Association for Computing Machinery, 2022, pp. 70–80. DOI: 10.1145/3534879.3534906.
- [C3] D. Bujosa Mateu, A. Johanson, M. Ashjaei, A. V. Papadopoulos, J. Proenza, and T. Nolte. “The Effects of Clock Synchronization in TSN Networks with Legacy End-stations”. In: *27th International Conference on Factory Automation*. (accepted). Stuttgart, Germany, 2022.
- [C4] G. Gualandi, M. Maggio, and A. V. Papadopoulos. “Optimization-based attack against control systems with CUSUM-based anomaly detection”. In: *30th Mediterranean Conference on Control and Automation (MED)*. (accepted). Athens, Greece, 2022, pp. 896–901.
- [C5] S. Hariharan, A. V. Papadopoulos, and T. Nolte. “On in-vehicle network security testing methodologies in construction machinery”. In: *27th International Conference on Factory Automation*. (accepted). Stuttgart, Germany, 2022.

- [C6] B. Johansson, M. Rågberger, T. Nolte, and A. V. Papadopoulos. “Priority Based Ethernet Handling in Real-Time End System with Ethernet Controller Filtering”. In: *48th Annual Conference of the IEEE Industrial Electronics Society (IECON)*. (accepted). Brussels, Belgium, 2022.
- [C7] B. Johansson, M. Rågberger, A. V. Papadopoulos, and T. Nolte. “Kubernetes Orchestration of High Availability Distributed Control Systems”. In: *23rd IEEE International Conference on Industrial Technology (ICIT)*. (accepted). Shanghai, China, 2022.
- [C8] M. Momeni, J. Relefors, L. Pettersson, A. V. Papadopoulos, and T. Nolte. “On the Bar Installation Order for the Automated Fabrication of Rebar Cages”. In: *39th International Symposium on Automation and Robotics in Construction (ISARC 2022)*. (accepted). Bogota, Colombia, 2022.
- [C9] A. Al-Dulaimy, J. Taheri, A. V. Papadopoulos, and T. Nolte. “LOOPS: A Holistic Control Approach for Resource Management in Cloud Computing”. In: *12th ACM/SPEC International Conference on Performance Engineering (ICPE)*. Rennes, France: Association for Computing Machinery, 2021, pp. 117–124. DOI: 10.1145/3427921.3450254.
- [C10] I. Ayala, M. Amor, L. Fuentes, and A. V. Papadopoulos. “Self-adapting Industrial Augmented Reality applications with proactive Dynamic Software Product Lines”. In: *26th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)*. Västerås, Sweden, 2021, pp. 1–8. DOI: 10.1109/ETFA45728.2021.9613392.
- [C11] I. Ayala, A. V. Papadopoulos, M. Amor, and L. Fuentes. “ProDSPL: Proactive Self-Adaptation Based on Dynamic Software Product Lines”. In: *Proceedings of the 25th ACM International Systems and Software Product Line Conference - Volume A. SPLC '21*. Leicester, United Kingdom: Association for Computing Machinery, 2021, p. 81. DOI: 10.1145/3461001.3473064.
- [C12] D. Bujosa Mateu, M. Ashjaei, A. V. Papadopoulos, J. Proenza, and T. Nolte. “LETRA: Mapping Legacy Ethernet-Based Traffic into TSN Traffic Classes”. In: *26th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)*. Västerås, Sweden, 2021, pp. 1–8. DOI: 10.1109/ETFA45728.2021.9613637.
- [C13] R. Caldas, R. Ghzouli, A. V. Papadopoulos, P. Pelliccione, D. Weyns, and T. Berger. “Towards Mapping Control Theory and Software Engineering Properties using Specification Patterns”. In: *IEEE International Conference on Autonomic Computing and Self-Organizing Systems (ACSOS)*. Washington DC, USA, 2021, pp. 281–286. DOI: 10.1109/ACSOS-C52956.2021.00067.
- [C14] M. Frasheri, L. Esterle, and A. V. Papadopoulos. “Cooperative Multi-Agent Systems for the Multi-Target κ -Coverage Problem”. In: *Agents and Artificial Intelligence*. Ed. by A. P. Rocha, L. Steels, and J. van den Herik. Cham: Springer International Publishing, 2021, pp. 106–131. DOI: 10.1007/978-3-030-71158-0_5.
- [C15] A. Friebe, F. Marković, A. V. Papadopoulos, and T. Nolte. “Adaptive Runtime Estimate of Task Execution Times using Bayesian Modeling”. In: *27th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA)*. Gangneung, South Korea, 2021, pp. 1–10. DOI: 10.1109/RTCSA52859.2021.00008.
- [C16] A. Lager, A. V. Papadopoulos, G. Spampinato, and T. Nolte. “A Task Modelling Formalism for Industrial Mobile Robot Applications”. In: *20th International Conference on Advanced Robotics (ICAR)*. Ljubljana, Slovenia, 2021, pp. 296–303. DOI: 10.1109/ICAR53236.2021.9659481.
- [C17] F. Marković, A. V. Papadopoulos, and T. Nolte. “On the Convolution Efficiency for Probabilistic Analysis of Real-Time Systems”. In: *33rd Euromicro Conference on Real-Time Systems (ECRTS)*. Ed. by B. B. Brandenburg. Vol. 196. Leibniz International Proceedings in Informatics (LIPIcs). Virtual Conference: Schloss Dagstuhl – Leibniz-Zentrum für Informatik, 2021, 16:1–16:22. DOI: 10.4230/LIPIcs.ECRTS.2021.16. **Outstanding paper award.** Acceptance rate: 19%.

- [C18] B. Miloradović, B. Çürüklü, M. Ekström, and A. V. Papadopoulos. “Exploiting Parallelism in Multi-Task Robot Allocation Problems”. In: *21st IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC)*. Santa Maria da Feira, Portugal, 2021, pp. 197–202. DOI: 10.1109/ICARSC52212.2021.9429814.
- [C19] N. Persson, T. Andersson, A. Fattouh, M. C. Ekström, and A. V. Papadopoulos. “A Comparative Analysis and Design of Controllers for Autonomous Bicycles”. In: *European Control Conference (ECC)*. Rotterdam, The Netherlands, 2021, pp. 1570–1576. DOI: 10.23919/ECC54610.2021.9655223.
- [C20] N. Persson, M. C. Ekström, M. Ekström, and A. V. Papadopoulos. “Trajectory tracking and stabilisation of a riderless bicycle”. In: *24th IEEE International Conference on Intelligent Transportation (ITSC)*. Indianapolis, IN, USA, 2021, pp. 1859–1866. DOI: 10.1109/ITSC48978.2021.9564958.
- [C21] J. Relefors, M. Momeni, L. Petterson, A. V. Papadopoulos, and T. Nolte. “Installation Order in Automatic Fabrication of Reinforcement Rebar Cages”. In: *26th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)*. Västerås, Sweden, 2021, pp. 1–4. DOI: 10.1109/ETFA45728.2021.9613321.
- [C22] S. M. Salman, S. Mubeen, A. V. Papadopoulos, and T. Nolte. “Scheduling Elastic Applications in Compositional Real-Time Systems”. In: *26th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)*. Västerås, Sweden, 2021, pp. 1–8. DOI: 10.1109/ETFA45728.2021.9613375.
- [C23] S. M. Salman, A. V. Papadopoulos, S. Mubeen, and T. Nolte. “Multi-Processor Scheduling of Elastic Applications in Compositional Real-Time Systems”. In: *17th International Conference on Embedded Software and Systems (ICCESS)*. Online event, 2021. DOI: 10.1016/j.sysarc.2021.102358.
- [C24] V. Struhár, S. S. Craciunas, M. Ashjaei, M. Behnam, and A. V. Papadopoulos. “REACT: Enabling Real-Time Container Orchestration”. In: *26th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)*. Västerås, Sweden, 2021, pp. 1–8. DOI: 10.1109/ETFA45728.2021.9613685.
- [C25] D. Bujosa Mateu, D. Hallmans, M. Ashjaei, A. V. Papadopoulos, J. Proenza, and T. Nolte. “Clock Synchronization in Integrated TSN-EtherCAT Networks”. In: *25th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)*. Vol. 1. Vienna, Austria, 2020, pp. 214–221. DOI: 10.1109/ETFA46521.2020.9212153.
- [C26] J. Cámara, A. V. Papadopoulos, D. Weyns, T. Vogel, D. Garlan, S. Huang, and K. Tei. “Towards Bridging the Gap between Control and Self-Adaptive System Properties”. In: *15th International Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS)*. Seoul, Republic of Korea: ACM, 2020, pp. 78–84. DOI: 10.1145/3387939.3391568.
- [C27] M. Frasheri, J. Cano-Garcia, E. Gonzalez-Parada, B. Çürüklü, M. Ekström, A. V. Papadopoulos, and C. Urdiales. “Adaptive Autonomy in Wireless Sensor Networks”. In: *Proceedings of the 19th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS)*. Auckland, New Zealand: International Foundation for Autonomous Agents and Multiagent Systems, 2020, pp. 375–383. DOI: 10.5555/3398761.3398809. Acceptance rate: 23%.
- [C28] M. Frasheri, L. Esterle, and A. V. Papadopoulos. “Modeling the Willingness to Interact in Cooperative Multi-Robot Systems”. In: *Proceedings of the 12th International Conference on Agents and Artificial Intelligence (ICAART)*. Vol. 1. INSTICC. Valletta, Malta: SciTePress, 2020, pp. 62–72. DOI: 10.5220/0008951900620072.
- [C29] A. Friebe, A. V. Papadopoulos, and T. Nolte. “Identification and Validation of Markov Models with Continuous Emission Distributions for Execution Times”. In: *26th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA)*. Gangneung, South Korea, 2020. DOI: 10.1109/RTCSA50079.2020.9203594.

- [C30] B. Johansson, M. Rågberger, A. V. Papadopoulos, and T. Nolte. “Heartbeat Bully: Failure Detection and Redundancy Role Selection for Network-Centric Controller”. In: *46th Annual Conference of the IEEE Industrial Electronics Society (IECON)*. Singapore, 2020, pp. 2126–2133. DOI: 10.1109/IECON43393.2020.9254494.
- [C31] A. Lager, G. Spampinato, A. V. Papadopoulos, and T. Nolte. “IoT and Fog Analytics for Industrial Robot Applications”. In: *25th IEEE Conference on Emerging Technologies and Factory Automation (ETFA)*. Vol. 1. Vienna, Austria, 2020, pp. 1297–1300. DOI: 10.1109/ETFA46521.2020.9212065.
- [C32] A. Leva, S. Seva, F. Terraneo, A. V. Papadopoulos, and M. Maggio. “How control-friendly is a computing system? And how control-friendly could it be?” In: *Proceedings of the 21st IFAC World Congress (IFAC WC)*. Vol. 53. 2. Berlin, Germany: IFAC, 2020, pp. 7857–7864. DOI: 10.1016/j.ifacol.2020.12.1962.
- [C33] B. Miloradović, B. Çürüklü, M. Ekström, and A. V. Papadopoulos. “A Genetic Algorithm Approach to Multi-Agent Mission Planning Problems”. In: *Operations Research and Enterprise Systems*. Ed. by G. H. Parlier, F. Liberatore, and M. Demange. Cham: Springer International Publishing, 2020, pp. 109–134. DOI: 10.1007/978-3-030-37584-3_6.
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