

Aspect-oriented Model-based testing with UPPAAL timed automata

Vain, Jüri; Tsiopoulos, Leonidas; Kanter, Gert Model and Data Engineering : 10th International Conference, MEDI 2021, Tallinn, Estonia, June 21–23, 2021 : proceedings 2021 / p. 117-124 https://doi.org/10.1007/978-3-030-78428-7_10 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Determining a device crossover point in CPU/GPU systems for streaming applications

Kanur, Sudeep; Lund, Wictor; Tsiopoulos, Leonidas; Lilius, Johan 2015 IEEE Global Conference on Signal and Information Processing : GlobalSIP 2015 : Orlando, FL, USA, December 14-16, 2015 2015 / p. 1417-1421 : ill <http://dx.doi.org/10.1109/GlobalSIP.2015.7418432>

Developing multi-view Contracts using Event-B and Uppaal Timed Automata

Vain, Jüri; Tsiopoulos, Leonidas; Guin, Jishu 2016 21st International Conference on Engineering of Complex Computer Systems : ICECCS 2016 : Dubai, United Arab Emirates, 6-8 November 2016 : proceedings 2016 / p. 126-134 : ill <https://doi.org/10.1109/ICECCS.2016.024>

DTRON : a tool for distributed model-based testing of time critical applications

Anier, Aivo; Vain, Jüri; Tsiopoulos, Leonidas Proceedings of the Estonian Academy of Sciences 2017 / p. 75-88 : ill <https://doi.org/10.3176/proc.2017.1.08> http://www.ester.ee/record=b2355998*est [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Energy-efficient multi-fragment Markov model guided online model-based testing for MPSoC

Vain, Jüri; Tsiopoulos, Leonidas; Kharchenko, Vyacheslav; Apneet Kaur; Jenihhin, Maksim; Raik, Jaan; Nömm, Sven Green IT Engineering: Social, Business and Industrial Applications 2019 / p. 273-297 https://doi.org/10.1007/978-3-030-00253-4_12 [Article collection at Scopus](#) [Article at Scopus](#)

Execution of dataflow process networks on OpenCL platforms

Lund, Wictor; Kanur, Sudeep; Ersfolk, Johan; Tsiopoulos, Leonidas 23rd Euromicro International Conference on Parallel, Distributed, and Network-Based Processing : PDP 2015 : 4-6 March 2015, Turku, Finland : proceedings 2015 / p. 618-625 : ill <https://doi.org/10.1109/PDP.2015.29>

14th IFAC Symposium on Analysis, Design, and Evaluation of Human Machine Systems HMS 2019, Tallinn, Estonia, 16–91 September 2019 : proceedings

2019 <https://www.sciencedirect.com/journal/ifac-papersonline/vol/52/issue/19>

Hybrid cybersecurity research and education environment for maritime sector

Visky, Gabor; Šiganov, Aleksei; Rehman, Muaan ur; Vaarandi, Risto; Bahsi, Hayretidin; Tsiopoulos, Leonidas 2024 IEEE International Conference on Cyber Security and Resilience (CSR) : proceedings 2024 / p. 644-651 <https://doi.org/10.1109/CSR61664.2024.10679392>

Integrating Cyber Threat Intelligence into Threat Modeling for Autonomous Ships Using PASTA and MISP

Erbas, Muhammed; Vanharanta, Jani; Paavola, Jarkko; Tsiopoulos, Leonidas; Vaarandi, Risto 2025 IEEE International Conference on Cyber Security and Resilience (CSR) 2025 / p. 133-139 <https://ieeexplore.ieee.org/document/11130108> <http://doi.org/10.1109/CSR64739.2025.11130108>

Integration of iUML-B and UPPAAL timed automata for development of real-time systems with concurrent processes

Shokri-Manninen, Fatima; Tsiopoulos, Leonidas; Vain, Jüri; Walden, Marina Rigorous State-Based Methods 7th International Conference, ABZ 2020, Ulm, Germany, May 27–29, 2020 : proceedings 2020 / p. 186-202 https://doi.org/10.1007/978-3-030-48077-6_13 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Model-based analysis of secure and patient-dependent pacemaker monitoring system

Tsiopoulos, Leonidas; Kuusik, Alar; Vain, Jüri; Bahsi, Hayretidin Body Area Networks. Smart IoT and Big Data for Intelligent Health : 15th EAI International Conference, BODYNETS 2020, Tallinn, Estonia, October 21, 2020 : proceedings 2020 / p. 77-91 https://doi.org/10.1007/978-3-030-64991-3_6 [Journal metrics at scopus](#) [Article at Scopus](#)

Modeling for multi-view interference analysis of design aspects in MPSoC designs

Vain, Jüri; Apneet Kaur; Tsiopoulos, Leonidas; Raik, Jaan; Jenihhin, Maksim RESCUE 2017 : Workshop on Reliability, Security and Quality : ETS17 Fringe Workshop, May 25-26, 2017, Limassol, Cyprus 2017 / p. 1-6 <http://www.ets17.org.cy/workshop/rescue-workshop.html>

Multi-fragment Markov model guided online test generation for MPSoC

Vain, Jüri; Tsiopoulos, Leonidas; Kharchenko, Vyacheslav; Apneet Kaur; Jenihhin, Maksim; Raik, Jaan ICTERI 2017 : ICT in Education, Research and Industrial Applications. Integration, Harmonization and Knowledge Transfer : proceedings of the 13th International Conference on ICT in Education, Research and Industrial Applications. Integration, Harmonization and Knowledge Transfer, Kyiv, Ukraine, May 15-18, 2017 2017 / p. 594-607 : ill <http://www.scopus.com/inward/record.uri?eid=2-s2.0-85020540459&partnerID=40&md5=af226e25c344c52689f23bf5c39cc267> <http://ceur-ws.org/Vol-1844/10000594.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Multi-view modeling for MPSoC design aspects [Online resource]

Vain, Jüri; Apneet Kaur; Tsiopoulos, Leonidas; Raik, Jaan; Jenihhin, Maksim BEC 2018 : 2018 16th Biennial Baltic Electronics Conference (BEC) : proceedings of the 16th Biennial Baltic Electronics Conference, October 8-10, 2018 2018 / 4 p.: ill
<https://doi.org/10.1109/BEC.2018.8600986>

PASTA threat modeling for cyber resilience and COLREG compliance in autonomous ship systems

Erbas, Muhammed; Visky, Gabor; Maennel, Olaf Manuel; Tsiopoulos, Leonidas; Vaarandi, Risto 2025 IEEE International Conference on Cyber Security and Resilience (CSR) 2025 / p. 358-365 <https://ieeexplore.ieee.org/document/11130142>
<http://doi.org/10.1109/CSR64739.2025.11130142>

Provably correct aspect-oriented modeling with UPPAAL timed automata

Vain, Jüri; Tsiopoulos, Leonidas; Kanter, Gerd System assurances : modeling and management 2022 / p. 447-476
<https://doi.org/10.1016/B978-0-323-90240-3.00025-4>

A Scope Review of Secure Broadcasting Protocols for the Automatic Identification System

Tsiopoulos, Leonidas; Vaarandi, Risto Maritime Cybersecurity 2025 / p. 103-121 https://doi.org/10.1007/978-3-031-87290-7_6

A systematic literature review of cyber security monitoring in maritime

Vaarandi, Risto; Tsiopoulos, Leonidas; Visky, Gabor; Rehman, Muan Ur; Bahsi, Hayretin IEEE Access 2025 / p. 85307-85329 <https://doi.org/10.1109/ACCESS.2025.3567385>

Systematic literature review of threat modeling and risk assessment in ship cybersecurity

Erbas, Muhammed; Khalil, Shaymaa Mamdouh; Tsiopoulos, Leonidas Ocean engineering 2024 / art. 118059
<https://doi.org/10.1016/j.oceaneng.2024.118059> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Temporal multi-view contracts for efficient test models

Guin, Jishu; Vain, Jüri; Tsiopoulos, Leonidas; Valdek, Gert Digital Business and Intelligent Systems : 15th International Baltic Conference, Baltic DB&IS 2022, Riga, Latvia, July 4-6, 2022 : proceedings 2022 / p. 136–151 https://doi.org/10.1007/978-3-031-09850-5_10 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Temporal multi-view contracts help developing efficient test models

Guin, Jishu; Vain, Jüri; Tsiopoulos, Leonidas; Valdek, Gert Baltic journal of modern computing 2022 / p. 710-737
<https://doi.org/10.22364/bjmc.2022.10.4.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The Crisis Management System - a case study on aspect-oriented modelling with UPPAAL

Iqbal, Junaid; Truscan, Dragos; Porres, Ivan; Tsiopoulos, Leonidas; Vain, Jüri 2016 http://tucs.fi/publications/view/?pub_id=tlqTsTrVaPo16a

Using Incremental Inductive Logic Programming for Learning Spoofing Attacks on Maritime Automatic Identification System Data

Benterki, Aboubaker Seddiq; Visky, Gabor; Vain, Jüri; Tsiopoulos, Leonidas Maritime Cybersecurity 2025 / p. 123-141
https://doi.org/10.1007/978-3-031-87290-7_7