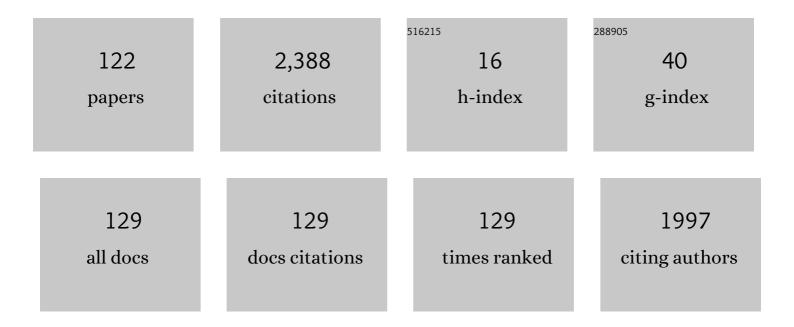
List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Model-Based Systems Engineering Tool-Chain for Automated Parameter Value Selection. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2333-2347. | 5.9 | 11 |
| 2 | Security Awareness in the Internet of Everything. , 2022, , 1-30. | | 0 |
| 3 | Traction Adaptive Motion Planning and Control at the Limits of Handling. IEEE Transactions on Control Systems Technology, 2022, 30, 1888-1904. | 3.2 | 5 |
| 4 | Evaluating Sequential Reasoning about Hidden Objects in Traffic. , 2022, , . | | 0 |
| 5 | Edge Computing for Cyber-physical Systems: A Systematic Mapping Study Emphasizing Trustworthiness. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-28. | 1.9 | 12 |
| 6 | Shape Estimation of a 3D Printed Soft Sensor Using Multi-Hypothesis Extended Kalman Filter. IEEE Robotics and Automation Letters, 2022, 7, 8383-8390. | 3.3 | 5 |
| 7 | Cyber-physical systems research and education in 2030: Scenarios and strategies. Journal of Industrial Information Integration, 2021, 21, 100192. | 4.3 | 22 |
| 8 | A Data-Driven Method Towards Minimizing Collision Severity for Highly Automated Vehicles. IEEE Transactions on Intelligent Vehicles, 2021, 6, 723-735. | 9.4 | 18 |
| 9 | Fusion of Heterogeneous Friction Estimates for Traction Adaptive Motion Planning and Control. , 2021, , . | | 6 |
| 10 | Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. IEEE Systems Journal, 2020, 14, 1297-1308. | 2.9 | 11 |
| 11 | A domain-specific modeling approach supporting tool-chain development with Bayesian network models. Integrated Computer-Aided Engineering, 2020, 27, 153-171. | 2.5 | 3 |
| 12 | The Role of Competence Networks in the Era of Cyber-Physical Systems — Promoting Knowledge Sharing and Knowledge Exchange. IEEE Design and Test, 2020, 37, 8-15. | 1.1 | 9 |
| 13 | A Permissioned Blockchain Based Feature Management System for Assembly Devices. IEEE Access, 2020, 8, 183378-183390. | 2.6 | 2 |
| 14 | Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. IEEE Systems Journal, 2020, 14, 3256-3266. | 2.9 | 4 |
| 15 | Uncertainty Management in Situation Awareness for Cyber-Physical Systems. , 2020, , . | | 1 |
| 16 | Competence Networks in the Era of CPS – Lessons Learnt in the ICES Cross-Disciplinary and Multi-domain Center. Lecture Notes in Computer Science, 2020, , 264-283. | 1.0 | 0 |
| 17 | An Open Source Lifecycle Collaboration Approach Supporting Internet of Things System Development. , 2019, , . | | 2 |
| 18 | Towards a taxonomy of technical debt for COTS-intensive cyber physical systems. Procedia Computer Science, 2019, 153, 108-117. | 1.2 | 4 |

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| 19 | A literature review on obsolescence management in COTS-centric cyber physical systems. Procedia Computer Science, 2019, 153, 135-145. | 1.2 | 7 |
| 20 | Trends in preparing cyber-physical systems engineers. Cyber-Physical Systems, 2019, 5, 65-91. | 1.6 | 12 |
| 21 | Efficient State Update Exchange in a CPS Environment for Linked Data-based Digital Twins. , 2019, , . | | 1 |
| 22 | Adaptive Trajectory Planning and optimization at Limits of Handling. , 2019, , . | | 14 |
| 23 | Pre-Crash Vehicle Control and Manoeuvre Planning: A Step Towards Minimizing Collision Severity for Highly Automated Vehicles. , 2019, , . | | 6 |
| 24 | Digitalizing Swedish industry: What is next?. Computers in Industry, 2019, 105, 153-163. | 5.7 | 62 |
| 25 | Security Awareness in the Internet of Everything. Advances in Computer and Electrical Engineering Book Series, 2019, , 272-301. | 0.2 | 2 |
| 26 | Connected things connecting Europe. Communications of the ACM, 2019, 62, 46-46. | 3.3 | 3 |
| 27 | How to Deal with the Complexity of Future Cyber-Physical Systems?. Designs, 2018, 2, 40. | 1.3 | 53 |
| 28 | A Service-Oriented Tool-Chain for Model-Based Systems Engineering of Aero-Engines. IEEE Access, 2018, 6, 50443-50458. | 2.6 | 15 |
| 29 | Architecting Safety Supervisors for High Levels of Automated Driving. , 2018, , . | | 11 |
| 30 | Safe Stop Trajectory Planning for Highly Automated Vehicles: An Optimal Control Problem Formulation. , 2018, , . | | 19 |
| 31 | Design Optimization of Cyber-Physical Systems by Partitioning and Coordination: A Study on Mechatronic Systems. , 2018, , . | | Ο |
| 32 | Experience from Introducing Systems Engineering in an Academic Environment Using an Industry Training Course. Incose International Symposium, 2018, 28, 245-259. | 0.2 | 2 |
| 33 | Complexity Challenges in Development of Cyber-Physical Systems. Lecture Notes in Computer Science, 2018, , 478-503. | 1.0 | 38 |
| 34 | Towards A Service-oriented Framework for MBSE Tool-chain Development. , 2018, , . | | 7 |
| 35 | A Tool Integration Language to Formalize Co-simulation Tool-Chains for Cyber-Physical System (CPS). Lecture Notes in Computer Science, 2018, , 391-405. | 1.0 | 2 |
| 36 | Empirical-Evolution of Frameworks Supporting Co-simulation Tool-Chain Development. Advances in Intelligent Systems and Computing, 2018, , 813-828. | 0.5 | 6 |

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| 37 | Tuning Permissiveness of Active Safety Monitors for Autonomous Systems. Lecture Notes in Computer Science, 2018, , 333-348. | 1.0 | 5 |
| 38 | Strategies and considerations in shaping cyber-physical systems education. ACM SIGBED Review, 2017, 14, 53-60. | 1.8 | 21 |
| 39 | Educating embedded systems hackers. ACM SIGBED Review, 2017, 14, 8-15. | 1.8 | 2 |
| 40 | A Case Study on Achieving Fair Data Age Distribution in Vehicular Communications. , 2017, , . | | 5 |
| 41 | An Investigation of Functionalities of Future Toolâ€chain for Aerospace Industry. Incose International Symposium, 2017, 27, 1408-1422. | 0.2 | 10 |
| 42 | Architecture exploration for distributed embedded systems: a gap analysis in automotive domain. , 2017, , . | | 4 |
| 43 | ATRIUM — Architecting under uncertainty: For ISO 26262 compliance. , 2017, , . | | 4 |
| 44 | Functional Safety and Evolvable Architectures for Autonomy. , 2017, , 547-560. | | 4 |
| 45 | Systems Engineering and Architecting for Intelligent Autonomous Systems. , 2017, , 313-351. | | 0 |
| 46 | A Method towards the Systematic Architecting of Functionally Safe Automated Driving- Leveraging Diagnostic Specifications for FSC design. , 2017, , . | | 2 |
| 47 | Architecture and Safety for Autonomous Heavy Vehicles: ARCHER. , 2017, , 571-581. | | Ο |
| 48 | A Functional Brake Architecture for Autonomous Heavy Commercial Vehicles. , 2016, , . | | 3 |
| 49 | Ontological reasoning for consistency in the design of cyber-physical systems. , 2016, , . | | 12 |
| 50 | Formulating customized specifications for resource allocation problem of distributed embedded systems. , 2016, , . | | 1 |
| 51 | Experiences and reflections on three years of CPS summer schools within EIT digital. , 2016, , . | | 3 |
| 52 | Towards integration of CPS and systems engineering in education. , 2016, , . | | 11 |
| 53 | Challenges in Architecting Fully Automated Driving; with an Emphasis on Heavy Commercial Vehicles. , 2016, , . | | 6 |
| 54 | A functional reference architecture for autonomous driving. Information and Software Technology, 2016, 73, 136-150. | 3.0 | 76 |

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| 55 | Architecture Challenges for Intelligent Autonomous Machines. Advances in Intelligent Systems and Computing, 2016, , 1669-1681. | 0.5 | 6 |
| 56 | Security-Aware Development of Cyber-Physical Systems Illustrated with Automotive Case Study. , 2016, , . | | 14 |
| 57 | Education and training challenges in the era of Cyber-Physical Systems. , 2015, , . | | 13 |
| 58 | Requirements Engineering for Control and Computing Systems at large research facilities: Process implementation and a case study. Incose International Symposium, 2015, 25, 68-82. | 0.2 | 0 |
| 59 | Current status and advancement of cyber-physical systems in manufacturing. Journal of Manufacturing Systems, 2015, 37, 517-527. | 7.6 | 704 |
| 60 | The Need for a Confidence View of CPS Support Environments (Fast Abstract). , 2015, , . | | 1 |
| 61 | The discourse on tool integration beyond technology, a literature survey. Journal of Systems and Software, 2015, 106, 117-131. | 3.3 | 9 |
| 62 | Analyzing semantic relationships between multiformalism models for inconsistency management. , 2015, , . | | 3 |
| 63 | Design-Space Reduction for Architectural Optimization of Automotive Embedded Systems. , 2015, , . | | 4 |
| 64 | A Functional Architecture for Autonomous Driving. , 2015, , . | | 73 |
| 65 | Experience on applying software architecture recovery to automotive embedded systems. , 2014, , . | | 4 |
| 66 | Integrating viewpoints in the development of mechatronic products. Mechatronics, 2014, 24, 745-762. | 2.0 | 77 |
| 67 | On the modeling and generation of service-oriented tool chains. Software and Systems Modeling, 2014, 13, 461-480. | 2.2 | 18 |
| 68 | Towards curricula for Cyber-Physical Systems. , 2014, , . | | 5 |
| 69 | Educating Embedded Systems Hackers. , 2014, , . | | 2 |
| 70 | On Integrating EAST-ADL and UPPAAL for Embedded System Architecture Verification. Embedded Systems, 2014, , 85-99. | 0.6 | 2 |
| 71 | 3rd Workshop on Architecting Safety in Collaborative Mobile Systems (ASCoMS). Lecture Notes in Computer Science, 2014, , 1-2. | 1.0 | 0 |
| 72 | A reference architecture for cooperative driving. Journal of Systems Architecture, 2013, 59, 1095-1112. | 2.5 | 32 |

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| 73 | Efficient Construction of Presentation Integration for Web-Based and Desktop Development Tools. , 2013, , . | | 2 |
| 74 | A characterization of integrated multi-view modeling in the context of embedded and cyber-physical systems. , 2013, , . | | 36 |
| 75 | Cyber-physical system design contracts. , 2013, , . | | 82 |
| 76 | Structuring Safety Requirements in ISO 26262 Using Contract Theory. Lecture Notes in Computer Science, 2013, , 166-177. | 1.0 | 16 |
| 77 | Component-Based Development. , 2013, , 179-212. | | 0 |
| 78 | Architecture Exploration. , 2013, , 145-178. | | 0 |
| 79 | Viewpoints, formalisms, languages, and tools for cyber-physical systems. , 2012, , . | | 53 |
| 80 | An Estimation Model for the Savings Achievable by Tool Chains. , 2012, , . | | 0 |
| 81 | High-Level Specification and Code Generation for Service-Oriented Tool Adapters. , 2012, , . | | 7 |
| 82 | A Cost-Efficiency Model for Tool Chains. , 2012, , . | | 1 |
| 83 | Tool Integration, from Tool to Tool Chain with ISO 26262. , 2012, , . | | 4 |
| 84 | A Concept for Secure Production Programming of Embedded Industrial Field Devices. , 2011, , . | | 0 |
| 85 | From EAST-ADL to AUTOSAR Software Architecture: A Mapping Scheme. Lecture Notes in Computer Science, 2011, , 328-335. | 1.0 | 10 |
| 86 | Generic Fault Modelling for Fault Injection. Lecture Notes in Computer Science, 2011, , 287-296. | 1.0 | 3 |
| 87 | Verifying system behaviors in EAST-ADL2 with the SPIN model checker. , 2010, , . | | 10 |
| 88 | Integrating safety analysis into the model-based development toolchain of automotive embedded systems. ACM SIGPLAN Notices, 2010, 45, 125-132. | 0.2 | 11 |
| 89 | Integrating safety analysis into the model-based development toolchain of automotive embedded systems. , 2010, , . | | 24 |
| 90 | MODIFI: A MODel-Implemented Fault Injection Tool. Lecture Notes in Computer Science, 2010, , 210-222. | 1.0 | 51 |

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| 91 | Model-Implemented Fault Injection for Hardware Fault Simulation. , 2010, , . | | 20 |
| 92 | An Executable Design Decision Representation Using Model Transformations. , 2010, , . | | 1 |
| 93 | 11 The EAST-ADL Architecture Description Language for Automotive Embedded Software. Lecture Notes in Computer Science, 2010, , 297-307. | 1.0 | 34 |
| 94 | 17 Towards Model-Based Engineering of Self-configuring Embedded Systems. Lecture Notes in Computer Science, 2010, , 345-353. | 1.0 | 1 |
| 95 | Autonomic Middleware for Automotive Embedded Systems. , 2009, , 169-210. | | 5 |
| 96 | Self configuration of dependent tasks for dynamically reconfigurable automotive embedded systems. , 2008, , . | | 3 |
| 97 | Supporting an Automotive Safety Case through Systematic Model Based Development - the EAST-ADL2 Approach. , 2008, , . | | 3 |
| 98 | Modelling Support for Design of Safety-Critical Automotive Embedded Systems. Lecture Notes in Computer Science, 2008, , 72-85. | 1.0 | 31 |
| 99 | Model-Based Development of Automotive Embedded Systems. Industrial Information Technology Series, 2008, , 258-309. | 0.2 | 10 |
| 100 | Experiences from large embedded systems development projects in education, involving industry and research. ACM SIGBED Review, 2007, 4, 55-63. | 1.8 | 14 |
| 101 | Managing Complexity of Automotive Electronics Using the EAST-ADL. , 2007, , . | | 22 |
| 102 | Experiences from Model Supported Configuration Management and Production of Automotive Embedded Software. , 2007, , . | | 0 |
| 103 | Towards Improving Dependability of Automotive Systems by Using the EAST-ADL Architecture Description Language. Lecture Notes in Computer Science, 2007, , 39-65. | 1.0 | 9 |
| 104 | Tool supporting the co-design of control systems and their real-time implementation: Current status and future directions. , 2006, , . | | 10 |
| 105 | Tool Supporting the Co-design of Control Systems and Their Real-time Implementation: Current Status and Future Directions. , 2006, , . | | 11 |
| 106 | THE EFFECT OF RANDOMLY TIME-VARYING SAMPLING AND COMPUTATIONAL DELAY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 209-218. | 0.4 | 1 |
| 107 | 7.1.1 Integrating Views in a Multiâ€view Modelling Environment. Incose International Symposium, 2005, 15, 974-988. | 0.2 | 1 |
| 108 | ODEEP - Open Dependable Electrical and Electronics Platform – Concept and Projects. , 2005, , . | | 1 |

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| 109 | How should embedded systems be taught?. ACM SIGBED Review, 2005, 2, 34-39. | 1.8 | 11 |
| 110 | Vehicle Applications of Controller Area Network. , 2005, , 741-765. | | 117 |
| 111 | What is embedded systems and how should it be taught?results from a didactic analysis. Transactions on Embedded Computing Systems, 2005, 4, 633-651. | 2.1 | 45 |
| 112 | Lessons Learned from Model Based Development of a Distributed Embedded Automotive Control System. , 2004, , . | | 2 |
| 113 | A Modeling Framework for Automotive Embedded Control Systems. , 2004, , . | | 1 |
| 114 | A metrics system for quantifying operational coupling in embedded computer control systems. , 2004, , · | | 4 |
| 115 | The AIDA toolset for design and implementation analysis of distributed real-time control systems. Microprocessors and Microsystems, 2004, 28, 163-182. | 1.8 | 16 |
| 116 | The science and education of mechatronics engineering. IEEE Robotics and Automation Magazine, 2001, 8, 20-26. | 2.2 | 39 |
| 117 | Fundamentals of Implementing Real-Time Control Applications in Distributed Computer Systems. Real-Time Systems, 1998, 14, 219-250. | 1.1 | 95 |
| 118 | Introducing distributed control in mobile machines based on hydraulic actuators. Mechatronics, 1994, 4, 139-157. | 2.0 | 4 |
| 119 | Real-time control of physically distributed systems. Computers and Electrical Engineering, 1992, 18, 51-72. | 3.0 | 3 |
| 120 | Semi-Automatic FMEA Supporting Complex Systems with Combinations and Sequences of Failures. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 2, 791-802. | 0.4 | 16 |
| 121 | AD-EYE: A Co-Simulation Platform for Early Verification of Functional Safety Concepts. , 0, , . | | 3 |
| 122 | Defining Fundamental Vehicle Actions for the Development of Automated Driving Systems. , 0, , . | | 2 |