Dejiu Chen

List of Publications by Year in Descending Order

51 papers	364 citations	11 h-index	16 g-index
57 ext. papers	429 ext. citations	1.6 avg, IF	3.23 L-index

#	Paper	IF	Citations
51	Analyzing Dynamic Operational Conditions of Limb Prosthetic Sockets with a Mechatronics-Twin Framework. *Applied Sciences (Switzerland)*, **2022**, 12, 986	2.6	
50	A Fault Injection Tool for Identifying Faulty Operations of Control Functions in Automated Driving Systems. *Lecture Notes in Networks and Systems*, **2022**, 340-349	0.5	
49	Using Fault Injection for the Training of Functions to Detect Soft Errors of DNNs in Automotive Vehicles. *Lecture Notes in Networks and Systems*, **2022**, 308-318	0.5	
48	A Sensor-Based Decision Support System for Transfemoral Socket Rectification. *Sensors*, **2021**, 21,	3.8	3
47	Model-Based Systems Engineering Tool-Chain for Automated Parameter Value Selection. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-15	7.3	9
46	Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. *IEEE Systems Journal*, **2020**, 14, 3256-3266	4.3	2
45	Uncertainty Management in Situation Awareness for Cyber-Physical Systems **2020**,		1
44	Signal Feature Analysis for Dynamic Anomaly Detection of Components in Embedded Control Systems. *Advances in Intelligent Systems and Computing*, **2019**, 471-481	0.4	1
43	An Adaptive Resource Provisioning Scheme for Industrial SDN Networks **2019**,		1
42	**2018**,		3
41	A Methodological Framework for Model-Based Self-management of Services and Components in Dependable Cyber-Physical Systems. *Advances in Intelligent Systems and Computing*, **2018**, 97-105	0.4	4
40	A Tool Integration Language to Formalize Co-simulation Tool-Chains for Cyber-Physical System (CPS). *Lecture Notes in Computer Science*, **2018**, 391-405	0.9	2
39	Towards QoS-Aware Service-Oriented Communication in E/E Automotive Architectures **2018**,		1
38	A Service-Oriented Tool-Chain for Model-Based Systems Engineering of Aero-Engines. *IEEE Access*, **2018**, 6, 50443-50458	3.5	5
37	Architecting Safety Supervisors for High Levels of Automated Driving **2018**,		4
36	Design of a Knowledge-Base Strategy for Capability-Aware Treatment of Uncertainties of Automated Driving Systems. *Lecture Notes in Computer Science*, **2018**, 446-457	0.9	2
35	A Model-Based Approach to Dynamic Self-assessment for Automated Performance and Safety Awareness of Cyber-Physical Systems. *Lecture Notes in Computer Science*, **2017**, 227-240	0.9	5

34	**2017**,		3
33	Model-Based Development of Automotive Embedded Systems **2017**, 10-1-10-52		
32	A Strategy for Assessing Safe Use of Sensors in Autonomous Road Vehicles. *Lecture Notes in Computer Science*, **2017**, 149-161	0.9	3
31	A model-based approach to qualified process automation for anomaly detection and treatment **2016**,		5
30	An Investigation of Model-Based Design Framework for Aero-Engine Control Systems. *Lecture Notes in Electrical Engineering*, **2016**, 625-638	0.2	1
29	Module-based quality system functionality evaluation in production logistics. *Journal of Industrial Engineering and Management*, **2016**, 9, 310	1.7	
28	Towards an Ontology-Based Approach to Safety Management in Cooperative Intelligent Transportation Systems. *Advances in Intelligent Systems and Computing*, **2015**, 107-115	0.4	3
27	A Virtual Environment for the Management and Development of Cyber-Physical Manufacturing Systems. *IFAC-PapersOnLine*, **2015**, 48, 29-36	0.7	12
26	A knowledge-in-the-loop approach to integrated safety&security for cooperative system-of-systems **2015**,		5
25	Model-Based Analysis and Engineering of Automotive Architectures with EAST-ADL. *International Journal of Conceptual Structures and Smart Applications*, **2015**, 3, 25-70		8
24	Experience on applying software architecture recovery to automotive embedded systems **2014**,		4
23	Model-Based Analysis and Engineering of Automotive Architectures with EAST-ADL. *Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series*, **2014**, 242-282	0.4	2
22	A reference architecture for cooperative driving. *Journal of Systems Architecture*, **2013**, 59, 1095-1112	5.5	27
21	An architectural approach to the analysis, verification and validation of software intensive embedded systems. *Computing (Vienna/New York)*, **2013**, 95, 649-688	2.2	17
20	Automatic optimisation of system architectures using EAST-ADL. *Journal of Systems and Software*, **2013**, 86, 2467-2487	3.3	37
19	Systems Modeling with EAST-ADL for Fault Tree Analysis through HiP-HOPS*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2013**, 46, 91-96		16
18	Component-Based Development **2013**, 179-212		
17	Architecture Exploration **2013**, 145-178		

16	From EAST-ADL to AUTOSAR Software Architecture: A Mapping Scheme. *Lecture Notes in Computer Science*, **2011**, 328-335	0.9	6
15	Model-based Toolchain for the Efficient Development of Safety-Relevant Automotive Embedded Systems **2011**,		11
14	Integrated safety and architecture modeling for automotive embedded systems*. *Elektrotechnik Und Informationstechnik*, **2011**, 128, 196-202	0.4	18
13	Verifying system behaviors in EAST-ADL2 with the SPIN model checker **2010**,		8
12	Automatic allocation of safety integrity levels **2010**,		27
11	Model-Based Safety Engineering of Interdependent Functions in Automotive Vehicles Using EAST-ADL2. *Lecture Notes in Computer Science*, **2010**, 332-346	0.9	10
10	17 Towards Model-Based Engineering of Self-configuring Embedded Systems. *Lecture Notes in Computer Science*, **2010**, 345-353	0.9	1
9	Autonomic Middleware for Automotive Embedded Systems **2009**, 169-210		3
8	Self configuration of dependent tasks for dynamically reconfigurable automotive embedded systems **2008**,		2
7	Model-Based Development of Automotive Embedded Systems. *Industrial Information Technology Series*, **2008**, 258-309		10
6	Modelling Support for Design of Safety-Critical Automotive Embedded Systems. *Lecture Notes in Computer Science*, **2008**, 72-85	0.9	23
5	Managing Complexity of Automotive Electronics Using the EAST-ADL **2007**,		14
4	Towards a Dynamically Reconfigurable Automotive Control System Architecture **2007**, 71-84		13
3	Towards Improving Dependability of Automotive Systems by Using the EAST-ADL Architecture Description Language. *Lecture Notes in Computer Science*, **2007**, 39-65	0.9	8
2	Model integration in the development of embedded control systems - a characterization of current research efforts **2006**,		4
1	Component-based vs. model-based development: a comparison in the context of vehicular embedded systems		17