Richard Messnarz

List of Publications by Year
in descending order

94 papers	1,172 citations	471061 17 h-index	500791 28 g-index
101 all docs	101 docs citations	101 times ranked	353 citing authors

#	Article	IF	Citations
1	The SPI manifesto and the ECQA SPI manager certification scheme. Journal of Software: Evolution and Process, 2012, 24, 525-540.	1.2	84
2	The people aspects in modern process improvement management approaches. Journal of Software: Evolution and Process, 2013, 25, 381-391.	1.2	69
3	Bootstrap: fine-tuning process assessment. IEEE Software, 1994, 11, 25-35.	2.1	63
4	Integrated design for tackling safety and security challenges of smart products and digital manufacturing. CIRP Annals - Manufacturing Technology, 2017, 66, 177-180.	1.7	62
5	Social responsibility aspects supporting the success of SPI. Journal of Software: Evolution and Process, 2014, 26, 284-294.	1.2	42
6	Integrated Safety and Security Development in the Automotive Domain. , 0, , .		37
7	Automotive Knowledge Alliance AQUA â€" Integrating Automotive SPICE, Six Sigma, and Functional Safety. Communications in Computer and Information Science, 2013, , 333-344.	0.4	35
8	Automotive SPICE, Safety and Cybersecurity Integration. Lecture Notes in Computer Science, 2017, , 273-285.	1.0	32
9	An architectural approach to the integration of safety and security requirements in smart products and systems design. CIRP Annals - Manufacturing Technology, 2018, 67, 173-176.	1.7	32
10	Experiences with ASPICE 3.1 and the VDA Automotive SPICE Guidelines â€" Using Advanced Assessment Systems. Communications in Computer and Information Science, 2019, , 549-562.	0.4	28
11	DRIVESâ€"EU blueprint project for the automotive sectorâ€"A literature review of drivers of change in automotive industry. Journal of Software: Evolution and Process, 2020, 32, e2222.	1.2	27
12	Experiences with Trial Assessments Combining Automotive SPICE and Functional Safety Standards. Communications in Computer and Information Science, 2012, , 266-275.	0.4	26
13	Need for the Continuous Evolution of Systems Engineering Practices for Modern Vehicle Engineering. Communications in Computer and Information Science, 2017, , 439-452.	0.4	24
14	Human resources based improvement strategies-the learning factor. Software Process Improvement and Practice, 2008, 13, 355-362.	1.1	20
15	Integrated Automotive SPICE and safety assessments. Software Process Improvement and Practice, 2009, 14, 279-288.	1.1	19
16	Qualification and certification for the competitive edge in Integrated Design. CIRP Journal of Manufacturing Science and Technology, 2010, 2, 279-289.	2.3	19
17	Launching Innovation in the Market Requires Competences in Dissemination and Exploitation. Communications in Computer and Information Science, 2012, , 241-252.	0.4	19
18	Integrating Functional Safety, Automotive SPICE and Six Sigma â€" The AQUA Knowledge Base and Integration Examples. Communications in Computer and Information Science, 2014, , 285-295.	0.4	19

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19	From process improvement to learning organisations. Software Process Improvement and Practice, 2006, 11, 287-294.	1.1	18
20	Assessmentâ€based learning systemsâ€"learning from best projects. Software Process Improvement and Practice, 2007, 12, 569-577.	1.1	18
21	Towards a securityâ€driven automotive development lifecycle. Journal of Software: Evolution and Process, 2023, 35, e2407.	1.2	17
22	An Investigation of Software Development Process Terminology. Communications in Computer and Information Science, 2016, , 351-361.	0.4	16
23	Diversity and PERMA-nent Positive Leadership to Benefit from Industry 4.0 and Kondratieff 6.0. Communications in Computer and Information Science, 2017, , 642-652.	0.4	16
24	Automotive Quality Universities - AQUA Alliance Extension to Higher Education. Communications in Computer and Information Science, 2016, , 176-187.	0.4	15
25	Experience with the Performance of Online Distributed Assessments â€" Using Advanced Infrastructure. Communications in Computer and Information Science, 2020, , 629-638.	0.4	15
26	Implementing Functional Safety Standards â€" Experiences from the Trials about Required Knowledge and Competencies (SafEUr). Communications in Computer and Information Science, 2013, , 323-332.	0.4	15
27	Hardware SPICE Extension for Automotive SPICE 3.1. Communications in Computer and Information Science, 2018, , 480-491.	0.4	14
28	Extending Automotive SPICE 3.0 for the use in ADAS and future self-driving service architectures. Journal of Software: Evolution and Process, 2018, 30, e1948.	1.2	14
29	Automotive Cybersecurity Engineering Job Roles and Best Practices â€" Developed for the EU Blueprint Project DRIVES. Communications in Computer and Information Science, 2020, , 499-510.	0.4	14
30	Agility Meets Systems Engineering: A Catalogue of Success Factors from Industry Practice. Communications in Computer and Information Science, 2010, , 245-256.	0.4	14
31	Refactoring Software Development Process Terminology Through the Use of Ontology. Communications in Computer and Information Science, 2016, , 47-57.	0.4	13
32	Automotive Engineering Skills and Job Roles of the Future?. Communications in Computer and Information Science, 2020, , 352-369.	0.4	13
33	Experiences with SQIL â€" SW Quality Improvement Leadership Approach from Volkswagen. Communications in Computer and Information Science, 2017, , 421-435.	0.4	13
34	Process and product innovation needs integrated engineering collaboration skills. Journal of Software: Evolution and Process, 2012, 24, 551-560.	1.2	12
35	Software process improvement leveraged in various application domains. Journal of Software: Evolution and Process, 2014, 26, 465-467.	1.2	11
36	Cross-Cutting Approach to Integrate Functional and Material Design in a System Architectural Design â€" Example of an Electric Powertrain. Communications in Computer and Information Science, 2019, , 322-338.	0.4	11

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37	SPI experiences and innovation for Global Software Development. Software Process Improvement and Practice, 2009, 14, 243-245.	1.1	10
38	First Experiences with the Automotive SPICE for Cybersecurity Assessment Model. Communications in Computer and Information Science, 2021, , 531-547.	0.4	10
39	Cybersecurity Threat Analysis, Risk Assessment and Design Patterns for Automotive Networked Embedded Systems: A Case Study. Journal of Universal Computer Science, 2021, 27, 830-849.	0.6	10
40	Democratizing Innovation in the Digital Era: Empowering Innovation Agents for Driving the Change. Communications in Computer and Information Science, 2020, , 757-771.	0.4	10
41	Using social media as a tool for business improvement and certification of knowledge workers. Journal of Software: Evolution and Process, 2014, 26, 791-798.	1.2	9
42	Selected functional safety and cybersecurity concerns in system, software, and service process improvement and innovation. Journal of Software: Evolution and Process, 2018, 30, e1955.	1.2	9
43	Highly Autonomous Vehicle (System) Design Patterns â€" Achieving Fail Operational and High Level of Safety and Security. Communications in Computer and Information Science, 2019, , 465-477.	0.4	9
44	Fostering Innovation and Entrepreneurship in European VET: EU Project â€œFrom Idea to Enterpriseâ€. Communications in Computer and Information Science, 2013, , 282-293.	0.4	9
45	Enough Assessment Guidance, Itâ€™s Time for Improvement â€" A Proposal for Extending the VDA Guidelines. Communications in Computer and Information Science, 2020, , 462-476.	0.4	8
46	The Future of SPI Knowledge and Networking in Europe â€" A Vision. Communications in Computer and Information Science, 2011, , 268-277.	0.4	8
47	Pioneering process improvement experiment in hungary. Software Process Improvement and Practice, 2000, 5, 213-229.	1.1	7
48	Transferable Competence Frameworks for Automotive Industry. Communications in Computer and Information Science, 2019, , 151-162.	0.4	7
49	Europe wide industry certification using standard procedures based on ISO 17024. , 2012, , .		6
50	Improving the software development for multiple projects by applying a platform strategy for mechatronic systems. Journal of Software: Evolution and Process, 2012, 24, 541-549.	1.2	6
51	InnoTEACH â€" Applying Principles of Innovation in School. Communications in Computer and Information Science, 2017, , 294-301.	0.4	6
52	Shifting Paradigms in Innovation Management â€" Organic Growth Strategies in the Cloud. Communications in Computer and Information Science, 2019, , 28-42.	0.4	6
53	Integrated engineering skills for improving the system competence level. Software Process Improvement and Practice, 2009, 14, 325-335.	1.1	5
54	Special issue on software and service improvement in the scope of SMEs. Software Quality Journal, 2016, 24, 485-487.	1.4	5

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55	Industry-academia Cooperation to Empower Automotive Engineering Designers. Procedia CIRP, 2016, 50, 739-744.	1.0	5
56	A Study of Electric Powertrain Engineering - Its Requirements and Stakeholders Perspectives. Communications in Computer and Information Science, 2020, , 396-407.	0.4	5
57	From compliance to business success: improving outsourcing service controls by adopting external regulatory requirements. Software Process Improvement and Practice, 2006, 11, 239-249.	1.1	4
58	Special session: Performance-centered adaptive curriculum for employment needs. , 2012, , .		4
59	Snapshot of industrial experiences shared at the 20th anniversary EuroSPI conference. Journal of Software: Evolution and Process, 2014, 26, 771-775.	1.2	4
60	Innovation Agents â€" Moving from Process Driven to Human Centred Intelligence Driven Approaches. Communications in Computer and Information Science, 2021, , 319-335.	0.4	4
61	Automotive Cybersecurity - Training the Future. Communications in Computer and Information Science, 2021, , 211-219.	0.4	4
62	Forming a European Innovation Cluster as a Think Tank and Knowledge Pool. Communications in Computer and Information Science, 2016, , 293-301.	0.4	4
63	Leadership in Sustainability. Communications in Computer and Information Science, 2014, , 231-245.	0.4	4
64	Functional Safety Case with FTA and FMEDA Consistency Approach. Communications in Computer and Information Science, 2018, , 387-397.	0.4	3
65	Advances in system, software and service process improvement and innovation. Journal of Software: Evolution and Process, 2019, 31, e2146.	1.2	3
66	Metrics and Dashboard for Level 2 â€" Experience. Communications in Computer and Information Science, 2020, , 652-672.	0.4	3
67	Effective Approaches to Training CPS Knowledge and Skills. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2018, , 111-135.	0.5	3
68	Process improvement lessons learnt in small and large organizations worldwide. Software Process Improvement and Practice, 2008, 13, 297-299.	1.1	2
69	Editorial: European Systems and Software Process Improvement and Innovation (EuroSPI). IET Software, 2012, 6, 403.	1.5	2
70	Improving safety and availability of complex systems by using an integrated design approach in development. Journal of Software: Evolution and Process, 2013, 25, 341-349.	1.2	2
71	Industrial experiences with software process assessment and improvement: (Special Issue with) Tj ETQq1 1 0.784314 rgBT /Overlock 2013, 25, 325-327.	1.2	2
72	Addressing evolving requirements faced by the software industry. Journal of Software: Evolution and Process, 2020, 32, e2237.	1.2	2

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73	Process improvement guidance for successful automotive SPI implementation. Journal of Software: Evolution and Process, 2023, 35, e2373.	1.2	2
74	Recent Advances in Cybersecurity and Safety Architectures in Automotive, IT, and Connected Services. Journal of Universal Computer Science, 2021, 27, 793-795.	0.6	2
75	ELIC â€" Building the New Generation of Engineers for Automotive in Europe. Communications in Computer and Information Science, 2018, , 654-665.	0.4	2
76	Empowering Entrepreneurship in Europe: Going from the Idea to Enterprise in 4 EU Countries. Communications in Computer and Information Science, 2014, , 262-270.	0.4	2
77	Extending Automotive SPICE to Cover Functional Safety Requirements and a Safety Architecture. Communications in Computer and Information Science, 2011, , 298-307.	0.4	2
78	Special issue with selected industrial experience papers of EuroSPI22005. Software Process Improvement and Practice, 2006, 11, 215-218.	1.1	1
79	European industrial experiences in process improvement and innovation. Software Process Improvement and Practice, 2007, 12, 507-509.	1.1	1
80	Topics in Software, Systems and Services Process Improvement. Journal of Software: Evolution and Process, 2012, 24, 455-458.	1.2	1
81	Application themes of software process assessment and improvement. Journal of Software: Evolution and Process, 2014, 26, 281-283.	1.2	1
82	Process improvement approaches fertilised by advances in SPI. Journal of Software: Evolution and Process, 2015, 27, 509-513.	1.2	1
83	Results and lessons learned in System, Software & Service Process Improvement & Innovation. Journal of Software: Evolution and Process, 2016, 28, 946-949.	1.2	1
84	A Compact Introduction to Automotive Engineering Knowledge. Communications in Computer and Information Science, 2016, , 259-268.	0.4	1
85	Assessing Agile in Automotive Embedded Development Projects Using Automotive SPICE 3.1. Communications in Computer and Information Science, 2018, , 443-455.	0.4	1
86	Qualification and Certification of Research-Entrepreneur Skills Using the ECQA Platform. Communications in Computer and Information Science, 2010, , 249-258.	0.4	1
87	EU Project BPM-GOSPEL â€" Applying Compliance Management Scenarios in Business Process Modelling for Trusted Business Coaching Programs. Communications in Computer and Information Science, 2012, , 288-299.	0.4	1
88	Current perspectives on the software engineering process. Journal of Software: Evolution and Process, 2020, 32, e2313.	1.2	0
89	Project Valorisation through Agility and Catering for Stakeholder Expectations. Communications in Computer and Information Science, 2014, , 217-230.	0.4	0
90	ECQA Governance Capability Assessor Skills for Managing Strategic Directions. Communications in Computer and Information Science, 2015, , 260-275.	0.4	0

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91	Functional Safety Considerations for an In-wheel Electric Motor for Education. Communications in Computer and Information Science, 2016, , 251-258.	0.4	0
92	Automotive Quality Universities â€" AQU â€" Integration of Modular Content into the Higher Education Studies. Communications in Computer and Information Science, 2017, , 453-467.	0.4	0
93	Modelâ€based process improvement recommendation approaches. Journal of Software: Evolution and Process, 2023, 35, .	1.2	0
94	Software Process Improvement â€" EuroSPI 2007 Conference. Lecture Notes in Computer Science, 2007, , 1-6.	1.0	0