Richard Messnarz

List of Publications by Citations

85 papers	831 citations	15 h-index	24 g-index
101 ext. papers	911 ext. citations	0.7 avg, IF	4.35 L-index

#	Paper	IF	Citations
85	The SPI manifesto and the ECQA SPI manager certification scheme. *Journal of Software: Evolution and Process*, **2012**, 24, 525-540	1	57
84	The people aspects in modern process improvement management approaches. *Journal of Software: Evolution and Process*, **2013**, 25, 381-391	1	53
83	Integrated design for tackling safety and security challenges of smart products and digital manufacturing. *CIRP Annals - Manufacturing Technology*, **2017**, 66, 177-180	4.9	45
82	. *IEEE Software*, **1994**, 11, 25-35	1.5	39
81	Social responsibility aspects supporting the success of SPI. *Journal of Software: Evolution and Process*, **2014**, 26, 284-294	1	32
80	Integrated Safety and Security Development in the Automotive Domain **2017**,		29
79	Automotive Knowledge Alliance AQUA Integrating Automotive SPICE, Six Sigma, and Functional Safety. *Communications in Computer and Information Science*, **2013**, 333-344	0.3	29
78	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	4.9	25
77	Need for the Continuous Evolution of Systems Engineering Practices for Modern Vehicle Engineering. *Communications in Computer and Information Science*, **2017**, 439-452	0.3	20
76	Automotive SPICE, Safety and Cybersecurity Integration. *Lecture Notes in Computer Science*, **2017**, 273-285	0.9	20
75	Experiences with Trial Assessments Combining Automotive SPICE and Functional Safety Standards. *Communications in Computer and Information Science*, **2012**, 266-275	0.3	20
74	Qualification and certification for the competitive edge in Integrated Design. *CIRP Journal of Manufacturing Science and Technology*, **2010**, 2, 279-289	3.4	18
73	Integrated Automotive SPICE and safety assessments. *Software Process Improvement and Practice*, **2009**, 14, 279-288		17
72	EU Project SafEUr Competence Requirements for Functional Safety Managers. *Communications in Computer and Information Science*, **2012**, 253-265	0.3	17
71	Integrating Functional Safety, Automotive SPICE and Six Sigma The AQUA Knowledge Base and Integration Examples. *Communications in Computer and Information Science*, **2014**, 285-295	0.3	17
70	An Investigation of Software Development Process Terminology. *Communications in Computer and Information Science*, **2016**, 351-361	0.3	15
69	Assessment-based learning systems Learning from best projects. *Software Process Improvement and Practice*, **2007**, 12, 569-577		15

68	Experiences with ASPICE 3.1 and the VDA Automotive SPICE Guidelines – Using Advanced Assessment Systems. *Communications in Computer and Information Science*, **2019**, 549-562	0.3	15
67	Launching Innovation in the Market Requires Competences in Dissemination and Exploitation. *Communications in Computer and Information Science*, **2012**, 241-252	0.3	15
66	Implementing Functional Safety Standards – Experiences from the Trials about Required Knowledge and Competencies (SafEUr). *Communications in Computer and Information Science*, **2013**, 323-332	0.3	14
65	Human resources based improvement strategies – the learning factor. *Software Process Improvement and Practice*, **2008**, 13, 355-362		13
64	From process improvement to learning organisations. *Software Process Improvement and Practice*, **2006**, 11, 287-294		13
63	DRIVES – EU blueprint project for the automotive sector – A literature review of drivers of change in automotive industry. *Journal of Software: Evolution and Process*, **2020**, 32, e2222	1	13
62	Process and product innovation needs integrated engineering collaboration skills. *Journal of Software: Evolution and Process*, **2012**, 24, 551-560	1	12
61	Automotive Quality Universities - AQUA Alliance Extension to Higher Education. *Communications in Computer and Information Science*, **2016**, 176-187	0.3	12
60	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	12
59	Refactoring Software Development Process Terminology Through the Use of Ontology. *Communications in Computer and Information Science*, **2016**, 47-57	0.3	11
58	Experiences with SQIL – SW Quality Improvement Leadership Approach from Volkswagen. *Communications in Computer and Information Science*, **2017**, 421-435	0.3	11
57	Cross-Cutting Approach to Integrate Functional and Material Design in a System Architectural Design – Example of an Electric Powertrain. *Communications in Computer and Information Science*, **2019**, 322-338	0.3	10
56	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	0.3	10
55	Agility Meets Systems Engineering: A Catalogue of Success Factors from Industry Practice. *Communications in Computer and Information Science*, **2010**, 245-256	0.3	10
54	Automotive Engineering Skills and Job Roles of the Future?. *Communications in Computer and Information Science*, **2020**, 352-369	0.3	9
53	Automotive Cybersecurity Engineering Job Roles and Best Practices – Developed for the EU Blueprint Project DRIVES. *Communications in Computer and Information Science*, **2020**, 499-510	0.3	9
52	Hardware SPICE Extension for Automotive SPICE 3.1. *Communications in Computer and Information Science*, **2018**, 480-491	0.3	8
51	Fostering Innovation and Entrepreneurship in European VET: EU Project – From Idea to Enterprise – *Communications in Computer and Information Science*, **2013**, 282-293	0.3	7

50	Enough Assessment Guidance, It's Time for Improvement – A Proposal for Extending the VDA Guidelines. *Communications in Computer and Information Science*, **2020**, 462-476	0.3	6
49	Experience with the Performance of Online Distributed Assessments – Using Advanced Infrastructure. *Communications in Computer and Information Science*, **2020**, 629-638	0.3	6
48	Democratizing Innovation in the Digital Era: Empowering Innovation Agents for Driving the Change. *Communications in Computer and Information Science*, **2020**, 757-771	0.3	6
47	InnoTEACH – Applying Principles of Innovation in School. *Communications in Computer and Information Science*, **2017**, 294-301	0.3	5
46	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	5
45	Integrated engineering skills for improving the system competence level. *Software Process Improvement and Practice*, **2009**, 14, 325-335		5
44	Europe wide industry certification using standard procedures based on ISO 17024 **2012**,		5
43	Pioneering process improvement experiment in hungary. *Software Process Improvement and Practice*, **2000**, 5, 213-229		5
42	Transferable Competence Frameworks for Automotive Industry. *Communications in Computer and Information Science*, **2019**, 151-162	0.3	5
41	Shifting Paradigms in Innovation Management – Organic Growth Strategies in the Cloud. *Communications in Computer and Information Science*, **2019**, 28-42	0.3	5
40	Highly Autonomous Vehicle (System) Design Patterns – Achieving Fail Operational and High Level of Safety and Security. *Communications in Computer and Information Science*, **2019**, 465-477	0.3	5
39	The Future of SPI Knowledge and Networking in Europe – A Vision. *Communications in Computer and Information Science*, **2011**, 268-277	0.3	5
38	Industry-academia Cooperation to Empower Automotive Engineering Designers. *Procedia CIRP*, **2016**, 50, 739-744	1.8	5
37	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	4
36	Leadership in Sustainability. *Communications in Computer and Information Science*, **2014**, 231-245	0.3	4
35	Special issue on software and service improvement in the scope of SMEs. *Software Quality Journal*, **2016**, 24, 485-487	1.2	4
34	Special session: Performance-centered adaptive curriculum for employment needs **2012**,		3
33	Towards a security-driven automotive development lifecycle. *Journal of Software: Evolution and Process*,e2407	1	3

32	A Study of Electric Powertrain Engineering - Its Requirements and Stakeholders Perspectives. *Communications in Computer and Information Science*, **2020**, 396-407	0.3	3
31	Adapting the FMEA for Safety Critical Design Processes. *Communications in Computer and Information Science*, **2011**, 290-297	0.3	3
30	First Experiences with the Automotive SPICE for Cybersecurity Assessment Model. *Communications in Computer and Information Science*, **2021**, 531-547	0.3	3
29	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	1.6	3
28	From compliance to business success: improving outsourcing service controls by adopting external regulatory requirements. *Software Process Improvement and Practice*, **2006**, 11, 239-249		2
27	Forming a European Innovation Cluster as a Think Tank and Knowledge Pool. *Communications in Computer and Information Science*, **2016**, 293-301	0.3	2
26	ELIC Building the New Generation of Engineers for Automotive in Europe. *Communications in Computer and Information Science*, **2018**, 654-665	0.3	2
25	Empowering Entrepreneurship in Europe: Going from the Idea to Enterprise in 4 EU Countries. *Communications in Computer and Information Science*, **2014**, 262-270	0.3	2
24	Extending Automotive SPICE to Cover Functional Safety Requirements and a Safety Architecture. *Communications in Computer and Information Science*, **2011**, 298-307	0.3	2
23	Innovation Agents Moving from Process Driven to Human Centred Intelligence Driven Approaches. *Communications in Computer and Information Science*, **2021**, 319-335	0.3	2
22	Functional Safety Case with FTA and FMEDA Consistency Approach. *Communications in Computer and Information Science*, **2018**, 387-397	0.3	2
21	Electric Powertrain Engineer Skills Needs and Pilot Course Implementation. *Communications in Computer and Information Science*, **2021**, 675-691	0.3	2
20	A Multidimensional Review and Extension of the SPI Manifesto Using STEEPLED Analysis. *Communications in Computer and Information Science*, **2021**, 181-208	0.3	2
19	A Compact Introduction to Automotive Engineering Knowledge. *Communications in Computer and Information Science*, **2016**, 259-268	0.3	1
18	Effective Approaches to Training CPS Knowledge and Skills. *Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series*, **2018**, 111-135	0.4	1
17	Metrics and Dashboard for Level 2 Experience. *Communications in Computer and Information Science*, **2020**, 652-672	0.3	1
16	Qualification and Certification of Research-Entrepreneur Skills Using the ECQA Platform. *Communications in Computer and Information Science*, **2010**, 249-258	0.3	1
15	EU Project BPM-GOSPEL Applying Compliance Management Scenarios in Business Process Modelling for Trusted Business Coaching Programs. *Communications in Computer and Information Science*, **2012**, 288-299	0.3	1

14	Process improvement guidance for successful automotive SPI implementation. *Journal of Software: Evolution and Process*,e2373	1	1
13	Automotive Cybersecurity - Training the Future. *Communications in Computer and Information Science*, **2021**, 211-219	0.3	1
12	Assessing Agile in Automotive Embedded Development Projects Using Automotive SPICE 3.1. *Communications in Computer and Information Science*, **2018**, 443-455	0.3	1
11	Towards a Multidimensional Self-assessment for Software Process Improvement: A Pilot Tool. *Communications in Computer and Information Science*, **2021**, 164-180	0.3	1
10	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	0
9	European industrial experiences in process improvement and innovation. *Software Process Improvement and Practice*, **2007**, 12, 507-509		0
8	Special issue with selected industrial experience papers of EuroSPI22005. *Software Process Improvement and Practice*, **2006**, 11, 215-218		0
7	Software Process Improvement EuroSPI 2005 Conference. *Lecture Notes in Computer Science*, **2005**, 1-3	0.9	
6	ECQA Governance Capability Assessor Skills for Managing Strategic Directions. *Communications in Computer and Information Science*, **2015**, 260-275	0.3	
5	Functional Safety Considerations for an In-wheel Electric Motor for Education. *Communications in Computer and Information Science*, **2016**, 251-258	0.3	
4	Automotive Quality Universities AQU Integration of Modular Content into the Higher Education Studies. *Communications in Computer and Information Science*, **2017**, 453-467	0.3	
3	Project Valorisation through Agility and Catering for Stakeholder Expectations. *Communications in Computer and Information Science*, **2014**, 217-230	0.3	
2	Current perspectives on the software engineering process. *Journal of Software: Evolution and Process*, **2020**, 32, e2313	1	
1	Software Process Improvement EuroSPI 2007 Conference. *Lecture Notes in Computer Science*, **2007**, 1-6	0.9	