Andreas Riel

List of Publications by Citations

72 papers	478 citations	12 h-index	18 g-index
73 ext. papers	533 ext. citations	1 avg, IF	4.35 L-index

#	Paper	IF	Citations
72	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
71	Integrated Safety and Security Development in the Automotive Domain **2017**,		29
70	Automotive Knowledge Alliance AQUA Integrating Automotive SPICE, Six Sigma, and Functional Safety. *Communications in Computer and Information Science*, **2013**, 333-344	0.3	29
69	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
68	Automotive SPICE, Safety and Cybersecurity Integration. *Lecture Notes in Computer Science*, **2017**, 273-285	0.3	20
67	Structuring the early fuzzy front-end to manage ideation for new product development. *CIRP Annals - Manufacturing Technology*, **2013**, 62, 107-110	4.9	18
66	Qualification and certification for the competitive edge in Integrated Design. *CIRP Journal of Manufacturing Science and Technology*, **2010**, 2, 279-289	3.4	18
65	EU Project SafEUr Competence Requirements for Functional Safety Managers. *Communications in Computer and Information Science*, **2012**, 253-265	0.3	17
64	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
63	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
62	Stakeholder integration for the successful product process co-design for next-generation manufacturing technologies. *CIRP Annals - Manufacturing Technology*, **2016**, 65, 181-184	4.9	14
61	Industry 4.0 as Digitalization over the Entire Product Lifecycle: Opportunities in the Automotive Domain. *Communications in Computer and Information Science*, **2017**, 334-351	0.3	13
60	Process and product innovation needs integrated engineering collaboration skills. *Journal of Software: Evolution and Process*, **2012**, 24, 551-560	1	12
59	Automotive Quality Universities - AQUA Alliance Extension to Higher Education. *Communications in Computer and Information Science*, **2016**, 176-187	0.3	12
58	Virtual Reality Based Digital Chain for Maintenance Training. *Procedia CIRP*, **2019**, 84, 1069-1074	1.8	11
57	Quality Requirements Elicitation by Ideation of Product Quality Risks with Design Thinking **2020**,		11
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	Automatic knowledge extraction from manufacturing research publications. *CIRP Annals - Manufacturing Technology*, **2011**, 60, 477-480	4.9	9
54	The implementation of a digital service approach to fostering team autonomy, distant collaboration, and knowledge scaling in large enterprises. *Human Systems Management*, **2020**, 39, 573-588	1.9	8
53	A Design Process Approach to Strategic Production Planning for Industry 4.0. *Communications in Computer and Information Science*, **2017**, 323-333	0.3	8
52	Evaluation of Agile Team Work Quality. *Lecture Notes in Business Information Processing*, **2020**, 101-110	0.6	7
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	IT-supported innovation management in the automotive supplier industry to drive idea generation and leverage innovation. *Journal of Software: Evolution and Process*, **2013**, 25, 329-339	1	6
49	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
48	Design to Environment: Information Model Characteristics. *Procedia CIRP*, **2017**, 60, 494-499	1.8	5
47	Integrated engineering skills for improving the system competence level. *Software Process Improvement and Practice*, **2009**, 14, 325-335		5
46	Scaling Agile A Large Enterprise View on Delivering and Ensuring Sustainable Transitions. *Lecture Notes in Business Information Processing*, **2020**, 1-18	0.6	5
45	Systematic Agile Development in Regulated Environments. *Communications in Computer and Information Science*, **2020**, 191-202	0.3	5
44	Quality Assurance for Machine Learning an approach to function and system safeguarding **2020**,		5
43	Industry-academia Cooperation to Empower Automotive Engineering Designers. *Procedia CIRP*, **2016**, 50, 739-744	1.8	5
42	An Innovative Approach to Teaching Sustainable Design and Management. *Procedia CIRP*, **2015**, 36, 29-34	1.8	4
41	The EFIS Framework for Leveraging Agile Organizations Within Large Enterprises. *Lecture Notes in Business Information Processing*, **2021**, 42-51	0.6	4
40	Sustainability Efficiency Challenges of Modern IT Architectures A Quality Model for Serverless Energy Footprint. *Communications in Computer and Information Science*, **2020**, 289-301	0.3	4
39	Integrated Design A Set of Competences and Skills Required by Systems and Product Architects. *Communications in Computer and Information Science*, **2010**, 233-244	0.3	4
38	Innovation Managers 2.0: Which Competencies?. *Communications in Computer and Information Science*, **2011**, 278-289	0.3	4

37	Leadership in Sustainability. *Communications in Computer and Information Science*, **2014**, 231-245	0.3	4
36	Scaling agile on large enterprise level Systematic bundling and application of state of the art approaches for lasting agile transitions **2019**,		4
35	A Project Management Decision Support Tool for Keeping Pace with the Dynamics of Corporate Innovation Projects. *Communications in Computer and Information Science*, **2018**, 619-630	0.3	4
34	Corporate Entrepreneurship in Complex Organisations: Towards a Holistic Decision Aid Tool Set to Analyse and Plan Innovative Design Projects. *Procedia CIRP*, **2019**, 84, 644-649	1.8	3
33	Modellierung von Fahrzeug und Antriebsstrang im gesamten Entwicklungsprozess. *ATZ Automobiltechnische Zeitschrift*, **2004**, 106, 522-531	0.1	3
32	Towards a security-driven automotive development lifecycle. *Journal of Software: Evolution and Process*,e2407	1	3
31	Artificial Intelligence Helps Making Quality Assurance Processes Leaner. *Communications in Computer and Information Science*, **2019**, 722-730	0.3	3
30	Improvement of Innovation Management through the Enlargement of Idea Sources. *Communications in Computer and Information Science*, **2011**, 121-132	0.3	3
29	Integration to Face Modern Quality Challenges in Automotive. *Procedia Engineering*, **2014**, 97, 1866-1874		2
28	The SMARTSEA Education Approach to Leveraging the Internet of Things in the Maritime Industry. *Communications in Computer and Information Science*, **2020**, 247-258	0.3	2
27	A New Approach to Analysing and Visualizing the Management of Corporate Innovation Projects. *Communications in Computer and Information Science*, **2019**, 756-768	0.3	2
26	Agile Team Work Quality in the Context of Agile Transformations A Case Study in Large-Scaling Environments. *Communications in Computer and Information Science*, **2020**, 232-243	0.3	2
25	Achieving Sustainable Development by Integrating It into the Business Process Management System. *Communications in Computer and Information Science*, **2015**, 247-259	0.3	2
24	Forming a European Innovation Cluster as a Think Tank and Knowledge Pool. *Communications in Computer and Information Science*, **2016**, 293-301	0.3	2
23	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
22	European Qualification and Certification for the Lifelong Learning **2011**, 135-146		2
21	The Need for a Structured Approach towards Production Technology Roadmaps in Innovation-Driven Industries. *Communications in Computer and Information Science*, **2014**, 251-261	0.3	2
20	Orchestrating Agile IT Quality Management for Complex Solution Development Through Topic-Specific Partnerships in Large Enterprises An Example on the EFIS Framework. *Communications in Computer and Information Science*, **2021**, 88-104	0.3	2

19	Technology Strategy Planning and Innovation Management at Rheinmetall Automotive to Face Future Mobility Challenges. *Communications in Computer and Information Science*, **2018**, 607-618	0.3	2
18	Lean integration of IT security and data privacy governance aspects into product development in agile organizations. *Journal of Universal Computer Science*, **2021**, 27, 868-893	1.6	2
17	A Compact Introduction to Automotive Engineering Knowledge. *Communications in Computer and Information Science*, **2016**, 259-268	0.3	1
16	Preparing Researchers for Entrepreneurship Based on Systematic Innovation Training. *Procedia Engineering*, **2015**, 131, 933-940		1
15	Sustainable innovation management in the automotive supplier industry. *International Journal of Technology Intelligence and Planning*, **2011**, 7, 327	0.4	1
14	Modellabbildung des Antriebsstrangs. *MTZ - Motortechnische Zeitschrift*, **2005**, 66, 50-56	0.2	1
13	Teamwork quality in technology-driven product teams in large-scale agile organizations. *Journal of Software: Evolution and Process*,e2388	1	1
12	Startup Engagement as Part of the Technology Strategy Planning How Rheinmetall Automotive Increases Innovation by Using Corporate Venturing. *Communications in Computer and Information Science*, **2019**, 743-755	0.3	1
11	Quality Assurance and Traceability in Containerized Continuous Delivery Process. *Communications in Computer and Information Science*, **2019**, 368-377	0.3	1
10	A Concept for Virtual Reality Based Industrial Maintenance Training Preparation. *Communications in Computer and Information Science*, **2020**, 820-829	0.3	1
9	Qualification and Certification of Research-Entrepreneur Skills Using the ECQA Platform. *Communications in Computer and Information Science*, **2010**, 249-258	0.3	1
8	Virtual reality based digital chain for creating a knowledge base of hand gestures in maintenance tasks. *Procedia CIRP*, **2020**, 90, 648-653	1.8	1
7	Measuring teamwork quality in large-scale agile organisations evaluation and integration of the aTWQ approach. *IET Software*,	1	1
6	Integrating Stakeholder and Social Network Analysis into Innovation Project Management. *Communications in Computer and Information Science*, **2020**, 794-804	0.3	0
5	An Interpretation and Implementation of Automotive Hardware SPICE. *Communications in Computer and Information Science*, **2020**, 684-695	0.3	
4	Functional Safety Considerations for an In-wheel Electric Motor for Education. *Communications in Computer and Information Science*, **2016**, 251-258	0.3	
3	Towards an Ideation Process Applied to the Automotive Supplier Industry. *Communications in Computer and Information Science*, **2012**, 229-240	0.3	
2	A Design to Environment Modelling Approach based on Time Variation Networks. *Procedia CIRP*, **2018**, 70, 229-234	1.8	

1 The Relationship BetweenUncertainty and Task Execution Strategies in Project Management. *Project Management Journal*,875697282210898 3.5