

Fergal Mc Caffery

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

718
citations

13
h-index

23
g-index

109
ext. papers

861
ext. citations

0.7
avg, IF

4.07
L-index

#	Paper	IF	Citations
105	Quality improvement mechanism for cyber physical systemsAn evaluation. <i>Journal of Software: Evolution and Process</i> , 2020 , 32, e2295	1	0
104	A Developer Driven Framework for Security and Privacy in the Internet of Medical Things. <i>Communications in Computer and Information Science</i> , 2020 , 107-119	0.3	2
103	Achieving Data Privacy with a Dependability Mechanism for Cyber Physical Systems. <i>Communications in Computer and Information Science</i> , 2020 , 511-524	0.3	
102	Taxonomy-based testing and validation of a new defect classification for health software. <i>Journal of Software: Evolution and Process</i> , 2019 , 31, e1985	1	1
101	A Framework for Taxonomy Based Testing Using Classification of Defects in Health Software-SW91. <i>Communications in Computer and Information Science</i> , 2019 , 606-618	0.3	
100	A Serverless Architecture for Wireless Body Area Network Applications. <i>Lecture Notes in Computer Science</i> , 2019 , 239-254	0.9	1
99	Evaluation of a Dependability Mechanism for Cyber Physical Systems. <i>Communications in Computer and Information Science</i> , 2019 , 427-438	0.3	1
98	Analysis of Attacks and Security Requirements for Wireless Body Area Networks - A Systematic Literature Review. <i>Communications in Computer and Information Science</i> , 2019 , 439-452	0.3	2
97	To what extent the medical device software regulations can be achieved with agile software development methods? XPDSDMScrum. <i>Journal of Supercomputing</i> , 2019 , 75, 5227-5260	2.5	5
96	Improving Communication in Risk Management of Health Information Technology Systems by means of Medical Text Simplification 2019 ,		1
95	Hybrid Software Development Approaches in Practice: A European Perspective. <i>IEEE Software</i> , 2019 , 36, 20-31	1.5	30
94	A hybrid assessment approach for medical device software development companies. <i>Journal of Software: Evolution and Process</i> , 2018 , 30, e1929	1	3
93	Revising IEC 80001-1: Risk management of health information technology systems. <i>Computer Standards and Interfaces</i> , 2018 , 60, 67-72	3.5	5
92	Adopting Agile in the Sports Domain: A Phased Approach. <i>Communications in Computer and Information Science</i> , 2018 , 275-288	0.3	
91	A Software Process Improvement Roadmap for IEC 62304: An Expert Review. <i>Communications in Computer and Information Science</i> , 2018 , 593-604	0.3	
90	Agile Usage in Embedded Software Development in Safety Critical DomainA Systematic Review. <i>Communications in Computer and Information Science</i> , 2018 , 316-326	0.3	0
89	A Process Framework Combining Safety and Security in Practice. <i>Communications in Computer and Information Science</i> , 2018 , 173-180	0.3	2

88	Approach to the development of a Unified Framework for Safety Critical Software Development. <i>Computer Standards and Interfaces</i> , 2017 , 54, 152-161	3.5	1
87	Mobile medical app development with a focus on traceability. <i>Journal of Software: Evolution and Process</i> , 2017 , 29, e1861	1	2
86	Hybrid software and system development in practice: waterfall, scrum, and beyond 2017 ,		112
85	How Does Scrum Conform to the Regulatory Requirements Defined in MDevSPICE??. <i>Communications in Computer and Information Science</i> , 2017 , 257-268	0.3	2
84	A Proposed Approach to the Revision of IEC 80001-1 Following Annex SL. <i>Communications in Computer and Information Science</i> , 2017 , 289-301	0.3	
83	A Lightweight Software Process Assessment Approach Based on MDevSPICE? for Medical Device Development Domain. <i>Communications in Computer and Information Science</i> , 2017 , 578-588	0.3	1
82	Research findings from an industrial trial of a traceability assessment and implementation framework 2016 ,		5
81	Agile ?Is it Suitable for Medical Device Software Development?. <i>Communications in Computer and Information Science</i> , 2016 , 417-422	0.3	3
80	Safety Critical Software Development ?Extending Quality Management System Practices to Achieve Compliance with Regulatory Requirements. <i>Communications in Computer and Information Science</i> , 2016 , 17-30	0.3	1
79	Software Process Improvement Roadmaps ?Using Design Patterns to Aid SME? Developing Medical Device Software in the Implementation of IEC 62304. <i>Communications in Computer and Information Science</i> , 2016 , 43-56	0.3	1
78	Situational Factors in Safety Critical Software Development. <i>Communications in Computer and Information Science</i> , 2016 , 132-147	0.3	5
77	Development and benefits of MDevSPICE? , the medical device software process assessment framework. <i>Journal of Software: Evolution and Process</i> , 2016 , 28, 800-816	1	9
76	The MedITNet assessment framework: development and validation of a framework for improving risk management of medical IT networks. <i>Journal of Software: Evolution and Process</i> , 2016 , 28, 817-834	1	2
75	Creation of an IEC 62304 compliant software development plan. <i>Journal of Software: Evolution and Process</i> , 2016 , 28, 1005-1010	1	4
74	Tailoring MDevSPICE? for mobile medical apps 2016 ,		4
73	Risk Management: Achieving Higher Maturity & Capability Levels through the LEGO Approach 2016 ,		3
72	Investigating the Suitability of Using Agile for Medical Embedded Software Development. <i>Communications in Computer and Information Science</i> , 2016 , 409-416	0.3	1
71	The Development and Validation of a Roadmap for Traceability. <i>Communications in Computer and Information Science</i> , 2015 , 45-57	0.3	2

70	Safety Critical Software Process Assessment: How MDevSPICE Addresses the Challenge of Integrating Compliance and Capability. <i>Communications in Computer and Information Science</i> , 2015 , 13-18	0.3	5
69	Development and validation of the MedITNet assessment framework: improving risk management of medical IT networks 2015 ,		2
68	Piloting MDevSPICE: the medical device software process assessment framework 2015 ,		6
67	A roadmap to ISO 14971 implementation. <i>Journal of Software: Evolution and Process</i> , 2015 , 27, 319-336	1	6
66	Development of MDevSPICE the medical device software process assessment framework. <i>Journal of Software: Evolution and Process</i> , 2015 , 27, 565-572	1	5
65	Assessing traceability practical experiences and lessons learned. <i>Journal of Software: Evolution and Process</i> , 2015 , 27, 591-601	1	5
64	Software Process Improvement and Roadmapping A Roadmap for Implementing IEC 62304 in Organizations Developing and Maintaining Medical Device Software. <i>Communications in Computer and Information Science</i> , 2015 , 19-30	0.3	2
63	Towards an International Security Case Framework for Networked Medical Devices. <i>Lecture Notes in Computer Science</i> , 2015 , 197-209	0.9	2
62	Software or Service? That's the Question!. <i>Lecture Notes in Business Information Processing</i> , 2015 , 30-45	0.6	
61	An Agile Implementation within a Medical Device Software Organisation. <i>Communications in Computer and Information Science</i> , 2014 , 190-201	0.3	7
60	Assessing a hospital's medical IT network risk management practice with 80001-1. <i>Biomedical Instrumentation and Technology</i> , 2014 , 48, 64-71	0.4	6
59	Adopting agile practices when developing software for use in the medical domain. <i>Journal of Software: Evolution and Process</i> , 2014 , 26, 504-512	1	8
58	A Security Argument Pattern for Medical Device Assurance Cases 2014 ,		4
57	A Lightweight Assessment Method for Medical Device Software Processes. <i>Communications in Computer and Information Science</i> , 2014 , 144-156	0.3	3
56	MDevSPICE - A Comprehensive Solution for Manufacturers and Assessors of Safety-Critical Medical Device Software. <i>Communications in Computer and Information Science</i> , 2014 , 274-278	0.3	2
55	The Development and Validation of a Traceability Assessment Model. <i>Communications in Computer and Information Science</i> , 2014 , 72-83	0.3	4
54	A Traceability Process Assessment Model for the Medical Device Domain. <i>Communications in Computer and Information Science</i> , 2014 , 206-216	0.3	5
53	A Critical Evaluation of a Methodology for the Generation of Software Process Improvement Roadmaps. <i>Communications in Computer and Information Science</i> , 2014 , 36-47	0.3	3

52	Tailoring software process capability/maturity models for the health domain. <i>Health and Technology</i> , 2013 , 3, 11-28	2.1	6
51	Medical device standards' requirements for traceability during the software development lifecycle and implementation of a traceability assessment model. <i>Computer Standards and Interfaces</i> , 2013 , 36, 3-9	3.5	13
50	A lightweight traceability assessment method for medical device software. <i>Journal of Software: Evolution and Process</i> , 2013 , 25, 363-372	1	8
49	Risk management of medical IT networks: an ISO/IEC 15504 compliant approach to assessment against IEC 80001-1 2013 ,		3
48	Balancing Agility and Discipline in a Medical Device Software Organisation. <i>Communications in Computer and Information Science</i> , 2013 , 199-210	0.3	9
47	A Process Assessment Model for Security Assurance of Networked Medical Devices. <i>Communications in Computer and Information Science</i> , 2013 , 25-36	0.3	2
46	The Approach to the Development of an Assessment Method for IEC 80001-1. <i>Communications in Computer and Information Science</i> , 2013 , 37-48	0.3	2
45	MeD UD A Process Reference Model for Usability Design in Medical Devices. <i>Lecture Notes in Computer Science</i> , 2013 , 224-239	0.9	2
44	A Methodology for Software Process Improvement Roadmaps for Regulated Domains [Example with IEC 62366. <i>Communications in Computer and Information Science</i> , 2013 , 25-35	0.3	5
43	A Security Assurance Framework for Networked Medical Devices. <i>Lecture Notes in Computer Science</i> , 2013 , 363-366	0.9	1
42	The Development and Current Status of Medi SPICE. <i>Communications in Computer and Information Science</i> , 2013 , 49-60	0.3	
41	Improving Safety in Medical Devices from Concept to Retirement 2013 , 453-480		1
40	Improving Estimates by Hybridizing CMMI and Requirement Engineering Maturity Models A LEGO Application. <i>Communications in Computer and Information Science</i> , 2013 , 127-139	0.3	
39	Framework to Assist Healthcare Delivery Organisations and Medical Device Manufacturers Establish Security Assurance for Networked Medical Devices. <i>Communications in Computer and Information Science</i> , 2013 , 313-322	0.3	1
38	Investigation of Traceability within a Medical Device Organization. <i>Communications in Computer and Information Science</i> , 2013 , 211-222	0.3	2
37	A Process Framework for Global Software Engineering Teams. <i>Information and Software Technology</i> , 2012 , 54, 1175-1191	3.4	57
36	Barriers to Adopting Agile Practices When Developing Medical Device Software. <i>Communications in Computer and Information Science</i> , 2012 , 141-147	0.3	20
35	The Barriers to Traceability and their Potential Solutions: Towards a Reference Framework 2012 ,		16

34	Changes to the International Regulatory Environment. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012 , 6,	1.3	3
33	An agile process model for product derivation in software product line engineering. <i>Journal of Software: Evolution and Process</i> , 2012 , 24, 561-571	1	14
32	Traceability-Why Do It?. <i>Communications in Computer and Information Science</i> , 2012 , 161-172	0.3	5
31	Development of a Process Assessment Model for Assessing Medical IT Networks against IEC 80001-1. <i>Communications in Computer and Information Science</i> , 2012 , 148-160	0.3	6
30	Development of the Medi SPICE PRM. <i>Communications in Computer and Information Science</i> , 2012 , 265-268,	0.3	4
29	The Gamification of SPICE. <i>Communications in Computer and Information Science</i> , 2012 , 295-301	0.3	42
28	FIRST: Common-Sense Process Scopes for Starting a Process Improvement Program. <i>Communications in Computer and Information Science</i> , 2012 , 186-197	0.3	
27	Medical Device Software Traceability 2012 , 321-339		12
26	How Can Software SMEs Become Medical Device Software SMEs. <i>Communications in Computer and Information Science</i> , 2011 , 247-258	0.3	3
25	Med-Trace. <i>Communications in Computer and Information Science</i> , 2011 , 208-211	0.3	4
24	Standalone Software as an Active Medical Device. <i>Communications in Computer and Information Science</i> , 2011 , 97-107	0.3	10
23	Proposing an ISO/IEC 15504-2 Compliant Method for Process Capability/Maturity Models Customization. <i>Lecture Notes in Computer Science</i> , 2011 , 44-58	0.9	6
22	Improving Verification & Validation in the Medical Device Domain. <i>Communications in Computer and Information Science</i> , 2011 , 61-71	0.3	
21	Verification & Validation in Medi SPICE. <i>Communications in Computer and Information Science</i> , 2011 , 73-83.	0.3	
20	Challenges for Requirements Development: An Industry Perspective. <i>Communications in Computer and Information Science</i> , 2011 , 217-220	0.3	
19	Creating Software Process Capability/Maturity Models. <i>IEEE Software</i> , 2010 , 27, 92-94	1.5	74
18	Risk management capability model for the development of medical device software. <i>Software Quality Journal</i> , 2010 , 18, 81-107	1.2	17
17	Medi SPICE development. <i>Journal of Software: Evolution and Process</i> , 2010 , 22, n/a-n/a		3

16	Global Software Engineering: A Software Process Approach 2010 , 35-56		21
15	AnnoTestWeb/Run: Annotations Based Acceptance Testing. <i>Lecture Notes in Business Information Processing</i> , 2010 , 381-382	0.6	
14	Spreadsheet Information Retrieval through Natural Language. <i>Lecture Notes in Computer Science</i> , 2010 , 297-298	0.9	
13	Lightweight SPI assessments: what is the real cost?. <i>Software Process Improvement and Practice</i> , 2009 , 14, 271-278		11
12	Improving software Risk Management in a Medical Device Company 2009 ,		7
11	Developing acceptance tests from existing documentation using annotations: An experiment 2009 ,		2
10	Automating Expert-Defined Tests: A Suitable Approach for the Medical Device Industry?. <i>Communications in Computer and Information Science</i> , 2009 , 32-43	0.3	
9	Ahaa --agile, hybrid assessment method for automotive, safety critical smes 2008 ,		20
8	AutomotiveEdept: A lightweight assessment method for the automotive software industry. <i>Software Process Improvement and Practice</i> , 2008 , 13, 345-353		1
7	Mapping Medical Device Standards Against the CMMI for Configuration Management. <i>Communications in Computer and Information Science</i> , 2008 , 153-164	0.3	1
6	Improving Software Risk Management Practices in a Medical Device Company 2008 , 24-35		
5	Intelligent Voice Navigation of Spreadsheets. <i>Lecture Notes in Computer Science</i> , 2008 , 577-584	0.9	1
4	A risk management capability model for use in medical device companies 2006 ,		14
3	A proposed way for European software industries to achieve growth within the global marketplace. <i>Software Process Improvement and Practice</i> , 2006 , 11, 277-285		3
2	Experimenting with Agile Practices [First Things First. <i>Lecture Notes in Computer Science</i> , 2006 , 205-208	0.9	
1	Introducing Agility into Plan-Based Assessments. <i>Advances in Computer and Electrical Engineering Book Series</i> , 281-314	0.3	