

# Fergal Mc Caffery

## List of Publications by Citations

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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	Hybrid software and system development in practice: waterfall, scrum, and beyond <b>2017</b> ,		112
104	Creating Software Process Capability/Maturity Models. <i>IEEE Software</i> , <b>2010</b> , 27, 92-94	1.5	74
103	A Process Framework for Global Software Engineering Teams. <i>Information and Software Technology</i> , <b>2012</b> , 54, 1175-1191	3.4	57
102	The Gamification of SPICE. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 295-301	0.3	42
101	Hybrid Software Development Approaches in Practice: A European Perspective. <i>IEEE Software</i> , <b>2019</b> , 36, 20-31	1.5	30
100	Global Software Engineering: A Software Process Approach <b>2010</b> , 35-56		21
99	Barriers to Adopting Agile Practices When Developing Medical Device Software. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 141-147	0.3	20
98	Ahaa --agile, hybrid assessment method for automotive, safety critical smes <b>2008</b> ,		20
97	Risk management capability model for the development of medical device software. <i>Software Quality Journal</i> , <b>2010</b> , 18, 81-107	1.2	17
96	The Barriers to Traceability and their Potential Solutions: Towards a Reference Framework <b>2012</b> ,		16
95	An agile process model for product derivation in software product line engineering. <i>Journal of Software: Evolution and Process</i> , <b>2012</b> , 24, 561-571	1	14
94	A risk management capability model for use in medical device companies <b>2006</b> ,		14
93	Medical device standards' requirements for traceability during the software development lifecycle and implementation of a traceability assessment model. <i>Computer Standards and Interfaces</i> , <b>2013</b> , 36, 3-9	3.5	13
92	Medical Device Software Traceability <b>2012</b> , 321-339		12
91	Lightweight SPI assessments: what is the real cost?. <i>Software Process Improvement and Practice</i> , <b>2009</b> , 14, 271-278		11
90	Standalone Software as an Active Medical Device. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 97-107	0.3	10
89	Balancing Agility and Discipline in a Medical Device Software Organisation. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 199-210	0.3	9

88	Development and benefits of MDevSPICE <sup>2</sup> , the medical device software process assessment framework. <i>Journal of Software: Evolution and Process</i> , <b>2016</b> , 28, 800-816	1	9
87	A lightweight traceability assessment method for medical device software. <i>Journal of Software: Evolution and Process</i> , <b>2013</b> , 25, 363-372	1	8
86	Adopting agile practices when developing software for use in the medical domain. <i>Journal of Software: Evolution and Process</i> , <b>2014</b> , 26, 504-512	1	8
85	An Agile Implementation within a Medical Device Software Organisation. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 190-201	0.3	7
84	Improving software Risk Management in a Medical Device Company <b>2009</b> ,		7
83	Assessing a hospital's medical IT network risk management practice with 80001-1. <i>Biomedical Instrumentation and Technology</i> , <b>2014</b> , 48, 64-71	0.4	6
82	Tailoring software process capability/maturity models for the health domain. <i>Health and Technology</i> , <b>2013</b> , 3, 11-28	2.1	6
81	Piloting MDevSPICE: the medical device software process assessment framework <b>2015</b> ,		6
80	A roadmap to ISO 14971 implementation. <i>Journal of Software: Evolution and Process</i> , <b>2015</b> , 27, 319-336	1	6
79	Proposing an ISO/IEC 15504-2 Compliant Method for Process Capability/Maturity Models Customization. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 44-58	0.9	6
78	Development of a Process Assessment Model for Assessing Medical IT Networks against IEC 80001-1. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 148-160	0.3	6
77	Safety Critical Software Process Assessment: How MDevSPICE <sup>2</sup> Addresses the Challenge of Integrating Compliance and Capability. <i>Communications in Computer and Information Science</i> , <b>2015</b> , 13-18	0.3	5
76	Research findings from an industrial trial of a traceability assessment and implementation framework <b>2016</b> ,		5
75	Revising IEC 80001-1: Risk management of health information technology systems. <i>Computer Standards and Interfaces</i> , <b>2018</b> , 60, 67-72	3.5	5
74	Development of MDevSPICE <sup>2</sup> the medical device software process assessment framework. <i>Journal of Software: Evolution and Process</i> , <b>2015</b> , 27, 565-572	1	5
73	Assessing traceability practical experiences and lessons learned. <i>Journal of Software: Evolution and Process</i> , <b>2015</b> , 27, 591-601	1	5
72	Traceability-Why Do It?. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 161-172	0.3	5
71	Situational Factors in Safety Critical Software Development. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 132-147	0.3	5

70	A Methodology for Software Process Improvement Roadmaps for Regulated Domains (Example with IEC 62366). <i>Communications in Computer and Information Science</i> , <b>2013</b> , 25-35	0.3	5
69	A Traceability Process Assessment Model for the Medical Device Domain. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 206-216	0.3	5
68	To what extent the medical device software regulations can be achieved with agile software development methods? XP, DSDM, Scrum. <i>Journal of Supercomputing</i> , <b>2019</b> , 75, 5227-5260	2.5	5
67	A Security Argument Pattern for Medical Device Assurance Cases <b>2014</b> ,		4
66	The Development and Validation of a Traceability Assessment Model. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 72-83	0.3	4
65	Med-Trace. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 208-211	0.3	4
64	Development of the Medi SPICE PRM. <i>Communications in Computer and Information Science</i> , <b>2012</b> , 265-268,		4
63	Creation of an IEC 62304 compliant software development plan. <i>Journal of Software: Evolution and Process</i> , <b>2016</b> , 28, 1005-1010	1	4
62	Tailoring MDevSPICE for mobile medical apps <b>2016</b> ,		4
61	A hybrid assessment approach for medical device software development companies. <i>Journal of Software: Evolution and Process</i> , <b>2018</b> , 30, e1929	1	3
60	Agile Is it Suitable for Medical Device Software Development?. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 417-422	0.3	3
59	Changes to the International Regulatory Environment. <i>Journal of Medical Devices, Transactions of the ASME</i> , <b>2012</b> , 6,	1.3	3
58	How Can Software SMEs Become Medical Device Software SMEs. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 247-258	0.3	3
57	Medi SPICE development. <i>Journal of Software: Evolution and Process</i> , <b>2010</b> , 22, n/a-n/a		3
56	A proposed way for European software industries to achieve growth within the global marketplace. <i>Software Process Improvement and Practice</i> , <b>2006</b> , 11, 277-285		3
55	Risk management of medical IT networks: an ISO/IEC 15504 compliant approach to assessment against IEC 80001-1 <b>2013</b> ,		3
54	A Lightweight Assessment Method for Medical Device Software Processes. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 144-156	0.3	3
53	A Critical Evaluation of a Methodology for the Generation of Software Process Improvement Roadmaps. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 36-47	0.3	3

52	Risk Management: Achieving Higher Maturity & Capability Levels through the LEGO Approach <b>2016</b> ,		3
51	Mobile medical app development with a focus on traceability. <i>Journal of Software: Evolution and Process</i> , <b>2017</b> , 29, e1861	1	2
50	The Development and Validation of a Roadmap for Traceability. <i>Communications in Computer and Information Science</i> , <b>2015</b> , 45-57	0.3	2
49	Development and validation of the MedITNet assessment framework: improving risk management of medical IT networks <b>2015</b> ,		2
48	Developing acceptance tests from existing documentation using annotations: An experiment <b>2009</b> ,		2
47	A Developer Driven Framework for Security and Privacy in the Internet of Medical Things. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 107-119	0.3	2
46	Analysis of Attacks and Security Requirements for Wireless Body Area Networks - A Systematic Literature Review. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 439-452	0.3	2
45	MDevSPICE - A Comprehensive Solution for Manufacturers and Assessors of Safety-Critical Medical Device Software. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 274-278	0.3	2
44	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> , <b>2015</b> , 19-30	0.3	2
43	Towards an International Security Case Framework for Networked Medical Devices. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 197-209	0.9	2
42	How Does Scrum Conform to the Regulatory Requirements Defined in MDevSPICE??. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 257-268	0.3	2
41	A Process Assessment Model for Security Assurance of Networked Medical Devices. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 25-36	0.3	2
40	The Approach to the Development of an Assessment Method for IEC 80001-1. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 37-48	0.3	2
39	MeD UD [A Process Reference Model for Usability Design in Medical Devices. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 224-239	0.9	2
38	Investigation of Traceability within a Medical Device Organization. <i>Communications in Computer and Information Science</i> , <b>2013</b> , 211-222	0.3	2
37	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> , <b>2016</b> , 28, 817-834	1	2
36	A Process Framework Combining Safety and Security in Practice. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 173-180	0.3	2
35	Approach to the development of a Unified Framework for Safety Critical Software Development. <i>Computer Standards and Interfaces</i> , <b>2017</b> , 54, 152-161	3.5	1

34	Taxonomy-based testing and validation of a new defect classification for health software. <i>Journal of Software: Evolution and Process</i> , <b>2019</b> , 31, e1985	1	1
33	AutomotiveEdept: A lightweight assessment method for the automotive software industry. <i>Software Process Improvement and Practice</i> , <b>2008</b> , 13, 345-353		1
32	Mapping Medical Device Standards Against the CMMI for Configuration Management. <i>Communications in Computer and Information Science</i> , <b>2008</b> , 153-164	0.3	1
31	A Serverless Architecture for Wireless Body Area Network Applications. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 239-254	0.9	1
30	Evaluation of a Dependability Mechanism for Cyber Physical Systems. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 427-438	0.3	1
29	Safety Critical Software Development Eextending Quality Management System Practices to Achieve Compliance with Regulatory Requirements. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 17-30	0.3	1
28	Software Process Improvement Roadmaps EUsing Design Patterns to Aid SMEE Developing Medical Device Software in the Implementation of IEC 62304. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 43-56	0.3	1
27	Intelligent Voice Navigation of Spreadsheets. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 577-584	0.9	1
26	A Security Assurance Framework for Networked Medical Devices. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 363-366	0.9	1
25	A Lightweight Software Process Assessment Approach Based on MDevSPICEE for Medical Device Development Domain. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 578-588	0.3	1
24	Improving Safety in Medical Devices from Concept to Retirement <b>2013</b> , 453-480		1
23	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> , <b>2013</b> , 313-322	0.3	1
22	Investigating the Suitability of Using Agile for Medical Embedded Software Development. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 409-416	0.3	1
21	Improving Communication in Risk Management of Health Information Technology Systems by means of Medical Text Simplification <b>2019</b> ,		1
20	Quality improvement mechanism for cyber physical systemsEAn evaluation. <i>Journal of Software: Evolution and Process</i> , <b>2020</b> , 32, e2295	1	0
19	Agile Usage in Embedded Software Development in Safety Critical DomainE Systematic Review. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 316-326	0.3	0
18	Achieving Data Privacy with a Dependability Mechanism for Cyber Physical Systems. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 511-524	0.3	
17	Introducing Agility into Plan-Based Assessments. <i>Advances in Computer and Electrical Engineering Book Series</i> , 281-314	0.3	

- 16 Improving Software Risk Management Practices in a Medical Device Company **2008**, 24-35
- 15 Experimenting with Agile Practices [First Things First]. *Lecture Notes in Computer Science*, **2006**, 205-208 0.9
- 14 Adopting Agile in the Sports Domain: A Phased Approach. *Communications in Computer and Information Science*, **2018**, 275-288 0.3
- 13 A Framework for Taxonomy Based Testing Using Classification of Defects in Health Software-SW91. *Communications in Computer and Information Science*, **2019**, 606-618 0.3
- 12 Software or Service? That's the Question!. *Lecture Notes in Business Information Processing*, **2015**, 30-45 0.6
- 11 A Proposed Approach to the Revision of IEC 80001-1 Following Annex SL. *Communications in Computer and Information Science*, **2017**, 289-301 0.3
- 10 Automating Expert-Defined Tests: A Suitable Approach for the Medical Device Industry?. *Communications in Computer and Information Science*, **2009**, 32-43 0.3
- 9 AnnoTestWeb/Run: Annotations Based Acceptance Testing. *Lecture Notes in Business Information Processing*, **2010**, 381-382 0.6
- 8 Spreadsheet Information Retrieval through Natural Language. *Lecture Notes in Computer Science*, **2010**, 297-298 0.9
- 7 Improving Verification & Validation in the Medical Device Domain. *Communications in Computer and Information Science*, **2011**, 61-71 0.3
- 6 Verification & Validation in Medi SPICE. *Communications in Computer and Information Science*, **2011**, 73-83 0.3
- 5 Challenges for Requirements Development: An Industry Perspective. *Communications in Computer and Information Science*, **2011**, 217-220 0.3
- 4 FIRST: Common-Sense Process Scopes for Starting a Process Improvement Program. *Communications in Computer and Information Science*, **2012**, 186-197 0.3
- 3 The Development and Current Status of Medi SPICE. *Communications in Computer and Information Science*, **2013**, 49-60 0.3
- 2 Improving Estimates by Hybridizing CMMI and Requirement Engineering Maturity Models [A LEGO Application]. *Communications in Computer and Information Science*, **2013**, 127-139 0.3
- 1 A Software Process Improvement Roadmap for IEC 62304: An Expert Review. *Communications in Computer and Information Science*, **2018**, 593-604 0.3