

# Richard H McClatchey

## List of Publications by Year in descending order

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117  
papers

9,518  
citations

430843

18  
h-index

82542

72  
g-index

118  
all docs

118  
docs citations

118  
times ranked

9105  
citing authors

#	ARTICLE	IF	CITATIONS
1	NeuroProv: Provenance data visualisation for neuroimaging analyses. Journal of Computer Languages, 2019, 52, 72-87.	2.1	5
2	Cloud infrastructure provenance collection and management to reproduce scientific workflows execution. Future Generation Computer Systems, 2018, 86, 799-820.	7.5	10
3	Cloud provider capacity augmentation through automated resource bartering. Future Generation Computer Systems, 2018, 81, 203-218.	7.5	11
4	The Deployment of an Enhanced Model-Driven Architecture for Business Process Management. , 2018, , .		3
5	An Adaptable System to Support Provenance Management for the Public Policy-Making Process in Smart Cities. Informatics, 2018, 5, 3.	3.9	6
6	Towards a Biomedical Virtual Research Environment. , 2016, , .		0
7	Re-provisioning of Cloud-Based Execution Infrastructure Using the Cloud-Aware Provenance to Facilitate Scientific Workflow Execution Reproducibility. Communications in Computer and Information Science, 2016, , 74-94.	0.5	1
8	Provenance Support for Biomedical Big Data Analytics. , 2016, , .		2
9	A Provenance Framework for Policy Analytics in Smart Cities. , 2016, , .		2
10	Development of a large-scale neuroimages and clinical variables data atlas in the neuGRID4You (N4U) project. Journal of Biomedical Informatics, 2015, 57, 245-262.	4.3	8
11	Analysis Traceability and Provenance for HEP. Journal of Physics: Conference Series, 2015, 664, 032028.	0.4	0
12	Facilitating Evolution during Design and Implementation. KI - Kunstliche Intelligenz, 2015, 29, 213-217.	3.2	0
13	Traceability and Provenance in Big Data Medical Systems. , 2015, , .		5
14	Incorporating semantics in pattern-based scientific workflow recommender systems: Improving the accuracy of recommendations. , 2015, , .		6
15	Using Cloud-Aware Provenance to Reproduce Scientific Workflow Execution on Cloud. , 2015, , .		2
16	Provenance Support for Medical Research. Lecture Notes in Computer Science, 2015, , 291-293.	1.3	1
17	Data Management Challenges in Paediatric Information Systems. , 2014, , 211-232.		0
18	Scientific Workflow Repeatability through Cloud-Aware Provenance. , 2014, , .		1

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19	Provision of an integrated data analysis platform for computational neuroscience experiments. Journal of Systems and Information Technology, 2014, 16, 150-169.	1.7	11
20	Analysis Traceability for Biomedical Researchers. , 2014, , .		1
21	CRISTAL: A practical study in designing systems to cope with change. Information Systems, 2014, 42, 139-152.	3.6	11
22	Towards Provenance and Traceability in CRISTAL for HEP. Journal of Physics: Conference Series, 2014, 513, 032091.	0.4	0
23	Intelligent grid enabled services for neuroimaging analysis. Neurocomputing, 2013, 122, 88-99.	5.9	12
24	Adapting scientific workflow structures using multi-objective optimization strategies. ACM Transactions on Autonomous and Adaptive Systems, 2013, 8, 1-21.	0.8	13
25	An Integrated e-Science Analysis Base for Computation Neuroscience Experiments and Analysis. Procedia, Social and Behavioral Sciences, 2013, 73, 85-92.	0.5	10
26	Providing traceability for neuroimaging analyses. International Journal of Medical Informatics, 2013, 82, 882-894.	3.3	20
27	POSTER: Introducing pathogen. , 2013, , .		9
28	Glueing grids and clouds together: a service-oriented approach. International Journal of Web and Grid Services, 2012, 8, 248.	0.5	5
29	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.	4.1	6,177
30	A Service Oriented Analysis Environment for Neuroimaging Studies. , 2012, , .		1
31	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	12.6	85
32	An architecture for integrated intelligence in urban management using cloud computing. Journal of Cloud Computing: Advances, Systems and Applications, 2012, 1, 1.	3.9	83
33	Context caches in the Clouds. Journal of Cloud Computing: Advances, Systems and Applications, 2012, 1, 7.	3.9	6
34	Ontology-driven relational query formulation using the semantic and assertional capabilities of OWL-DL. Knowledge-Based Systems, 2012, 35, 144-159.	7.1	24
35	Provenance Management for Neuroimaging Workflows in neuGrid. , 2011, , .		2
36	Towards Context Caches in the Clouds. , 2011, , .		1

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37	An Architecture for Integrated Intelligence in Urban Management Using Cloud Computing. , 2011, , .		2
38	CMS Workflow Execution Using Intelligent Job Scheduling and Data Access Strategies. IEEE Transactions on Nuclear Science, 2011, 58, 1221-1232.	2.0	21
39	Bridging the gap between business process models and service-oriented architectures with reference to the grid environment. International Journal of Grid and Utility Computing, 2011, 2, 253.	0.2	7
40	Gluing Grids and Clouds Together: A Service-Oriented Approach. , 2011, , .		0
41	MedMatch " Towards Domain Specific Semantic Matching. Lecture Notes in Computer Science, 2011, , 375-382.	1.3	3
42	Developing ontology-driven conceptual data models. , 2010, , .		0
43	Research traceability using provenance services for biomedical analysis. Studies in Health Technology and Informatics, 2010, 159, 88-99.	0.3	1
44	Managing the mappings between domain ontologies and database schemas when formulating relational queries. , 2009, , .		4
45	Grid infrastructures for computational neuroscience: the neuGRID example. Future Neurology, 2009, 4, 703-722.	0.5	55
46	Neuroimaging analysis using grid aware planning and optimisation techniques. , 2009, , .		1
47	Rule-Based Querying of Distributed, Heterogeneous Data. IETE Technical Review (Institution of) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.2	1
48	A middleware agnostic infrastructure for neuro-imaging analysis. , 2009, , .		3
49	Semantic Matching Using the UMLS. Lecture Notes in Computer Science, 2009, , 203-217.	1.3	7
50	On the Pervasive Adoption of Grid Technologies. , 2009, , 156-169.		1
51	Gridifying Biomedical Applications in the Health-e-Child Project. , 2009, , 469-493.		3
52	Engineering Conceptual Data Models from Domain Ontologies. , 2009, , 304-316.		0
53	Reusable services from the neuGRID project for grid-based health applications. Studies in Health Technology and Informatics, 2009, 147, 283-8.	0.3	4
54	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	1.2	2,192

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55	Medical Data Integration and the Semantic Annotation of Medical Protocols. , 2008, , .		5
56	Using Assertion Capabilities of an OWL-Based Ontology for Query Formulation. , 2008, , .		3
57	An Architecture for Semantic Navigation and Reasoning with Patient Data - Experiences of the Health-e-Child Project. Lecture Notes in Computer Science, 2008, , 737-750.	1.3	7
58	Engineering Conceptual Data Models from Domain Ontologies. , 2008, , 1068-1080.		0
59	Ontology assisted query reformulation using the semantic and assertion capabilities of OWL-DL ontologies. , 2008, , .		8
60	Semantic Matching for the Medical Domain. Lecture Notes in Computer Science, 2008, , 198-202.	1.3	2
61	MammoGrid " a prototype distributed mammographic database for Europe. Clinical Radiology, 2007, 62, 1044-1051.	1.1	34
62	A comparison of some anthropometric parameters between an Italian and a UK population: "proof of principle" of a European project using MammoGrid. Clinical Radiology, 2007, 62, 1052-1060.	1.1	20
63	The Requirements for Ontologies in Medical Data Integration: A Case Study. , 2007, , .		10
64	Engineering Conceptual Data Models from Domain Ontologies. International Journal of Information Technology and Web Engineering, 2007, 2, 57-70.	1.6	7
65	A Scalable Evidence Based Self-Managing Framework for Trust Management. Electronic Notes in Theoretical Computer Science, 2007, 179, 59-73.	0.9	13
66	Experiences of engineering Grid-based medical software. International Journal of Medical Informatics, 2007, 76, 621-632.	3.3	24
67	Data Intensive and Network Aware (DIANA) Grid Scheduling. Journal of Grid Computing, 2007, 5, 43-64.	3.9	65
68	Managing Separation of Concerns in Grid Applications Through Architectural Model Transformations. Lecture Notes in Computer Science, 2007, , 308-312.	1.3	0
69	DIANA Scheduling Hierarchies for Optimizing Bulk Job Scheduling. , 2006, , .		3
70	Bulk Scheduling With the DIANA Scheduler. IEEE Transactions on Nuclear Science, 2006, 53, 3818-3829.	2.0	18
71	From Grid Middleware to a Grid Operating System. , 2006, , .		1
72	A Multi Interface Grid Discovery System. , 2006, , .		1

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73	Lessons Learned from MammoGrid for Integrated Biomedical Solutions. , 2006, , .		9
74	A semantic grid-based e-learning framework (SELF). , 2005, , .		23
75	JClarens: a Java framework for developing and deploying Web services for grid computing. , 2005, , .		4
76	Deployment of a grid-based medical imaging application. Studies in Health Technology and Informatics, 2005, 112, 59-69.	0.3	2
77	MammoGrid: A Service Oriented Architecture Based Medical Grid Application. Lecture Notes in Computer Science, 2004, , 939-942.	1.3	21
78	Distributed Analysis and Load Balancing System for Grid Enabled Analysis on Hand-Held Devices Using Multi-agents Systems. Lecture Notes in Computer Science, 2004, , 947-950.	1.3	4
79	Pattern reification as the basis for description-driven systems. Software and Systems Modeling, 2003, 2, 108-119.	2.7	9
80	Reifying Design Patterns to Facilitate Systems Evolution. Lecture Notes in Computer Science, 2003, , 75-87.	1.3	0
81	Managing Evolving Business Workflows through the Capture of Descriptive Information. Lecture Notes in Computer Science, 2003, , 5-16.	1.3	1
82	Promoting Reuse through the Capture of System Description. Lecture Notes in Computer Science, 2002, , 101-111.	1.3	2
83	Design patterns for description-driven systems in High Energy Physics. Computer Physics Communications, 2001, 140, 1-12.	7.5	8
84	Meta-data Objects as the Basis for System Evolution. Lecture Notes in Computer Science, 2001, , 390-399.	1.3	15
85	Integrated Data Management and Enterprise Models. Lecture Notes in Computer Science, 2000, , 153-164.	1.3	1
86	Explicit Modeling of the Semantics of Large Multi-layered Object-Oriented Databases. Lecture Notes in Computer Science, 2000, , 52-65.	1.3	2
87	The use of production management techniques in the construction of large scale physics detectors. IEEE Transactions on Nuclear Science, 1999, 46, 392-400.	2.0	8
88	Workflow management in the assembly of CMS ECAL. Computer Physics Communications, 1998, 110, 170-176.	7.5	1
89	Support for product data from design to production. Computer Integrated Manufacturing Systems, 1998, 11, 285-290.	0.1	42
90	Comparing case-based and backtrack search in a database application. Expert Systems With Applications, 1997, 12, 53-63.	7.6	1

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91	Workshop on workflow management in scientific and engineering applications. ACM SIGGROUP Bulletin, 1997, 18, 20-23.	0.4	1
92	Generic Control Systems Through Object Reuse. , 1996, , 45-48.		0
93	The use of an object repository in the configuration of control systems at CERN. Lecture Notes in Computer Science, 1995, , 153-163.	1.3	1
94	Production of $\rho(1270)$ and $\omega(975)$ mesons by photons and hadrons of energy 65-175 GeV. Zeitschrift für Physik C-Particles and Fields, 1992, 56, 185-192.	1.5	3
95	Use of the ADAMO data management system within ALEPH. Computer Physics Communications, 1987, 45, 283-298.	7.5	15
96	Use of software engineering techniques in the design of the ALEPH data acquisition system. Computer Physics Communications, 1987, 45, 433-441.	7.5	6
97	A Ring Imaging Cherenkov detector for the CERN Omega Spectrometer – the design and recent performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 248, 76-85.	1.6	16
98	The recent operational performance of the CERN omega ring imaging cerenkov detector. IEEE Transactions on Nuclear Science, 1986, 33, 122-131.	2.0	15
99	The design of the optical components and gas control systems of the CERN Omega ring imaging Cherenkov detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 241, 339-362.	1.6	21
100	A Ring Imaging Cerenkov Detector for the CERN Omega Spectrometer. IEEE Transactions on Nuclear Science, 1985, 32, 674-680.	2.0	7
101	Inclusive photoproduction of $\rho(980)$ and $B(1235)$ at high xF. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 138, 459-463.	4.1	22
102	Photoproduction of $\rho^{\pm}$ and $\rho^0$ systems. Nuclear Physics B, 1984, 239, 1-14.	2.5	0
103	Photoproduction of final states in the photon energy range from 20 to 70 GeV. Nuclear Physics B, 1984, 231, 1-14.	2.5	14
104	Photoproduction of $\rho^{\pm}$ on hydrogen with linearly polarized photons of energy 20-70 GeV. Nuclear Physics B, 1984, 231, 15-39.	2.5	40
105	A spin-parity analysis of the $\rho^0$ enhancement photoproduced in the energy range 20 to 70 GeV. Nuclear Physics B, 1984, 243, 1-28.	2.5	26
106	Observation of a peak at 1.28 GeV in the $\rho^{\pm}$ system in the reaction $\gamma p \rightarrow \rho^{\pm} p$ . Nuclear Physics B, 1984, 242, 269-281.	2.5	16
107	Inclusive photoproduction of $\rho^{\pm}$ and $\rho^0$ in the photon energy range 20 to 70 GeV. Nuclear Physics B, 1984, 245, 189-214.	2.5	14
108	A Ring Image Cerenkov Detector for the CERN Omega Spectrometer. IEEE Transactions on Nuclear Science, 1983, 30, 35-39.	2.0	12

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109	Further evidence for photoproduction of charmed F-mesons. Zeitschrift für Physik C-Particles and Fields, 1983, 17, 1-4.	1.5	3
110	Photoproduction of an isoscalar $\rho(770)$ resonance at 1.67 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 127, 132-136.	4.1	13
111	The reaction $\gamma p \rightarrow p \pi^0 \rho^+$ for photon energies of 25-50 GeV. Nuclear Physics B, 1983, 229, 269-283.	2.5	14
112	The decay of the $\rho(770)$ into $\rho^0 \pi^0$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 108, 55-57.	4.1	11
113	Associated photoproduction of a charmed meson and a charmed baryon. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1981, 30, 166-170.	0.4	7
114	Object databases in a distributed scientific workflow application. , 0, , .		4
115	Grid databases for shared image analysis in the MammoGrid project. , 0, , .		12
116	Heterogeneous Relational Databases for a Grid-Enabled Analysis Environment. , 0, , .		1
117	Resource Management Services for a Grid Analysis Environment. , 0, , .		8