

# Federico Cabitza

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4342234/publications.pdf>

Version: 2024-02-01

138  
papers

3,009  
citations

201575

27  
h-index

206029

48  
g-index

141  
all docs

141  
docs citations

141  
times ranked

3240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unintended Consequences of Machine Learning in Medicine. JAMA - Journal of the American Medical Association, 2017, 318, 517.	3.8	574
2	Detection of COVID-19 Infection from Routine Blood Exams with Machine Learning: A Feasibility Study. Journal of Medical Systems, 2020, 44, 135.	2.2	240
3	Machine Learning in Orthopedics: A Literature Review. Frontiers in Bioengineering and Biotechnology, 2018, 6, 75.	2.0	148
4	The need to separate the wheat from the chaff in medical informatics. International Journal of Medical Informatics, 2021, 153, 104510.	1.6	128
5	Development, evaluation, and validation of machine learning models for COVID-19 detection based on routine blood tests. Clinical Chemistry and Laboratory Medicine, 2021, 59, 421-431.	1.4	109
6	Infectious and thromboembolic complications of arthroscopic shoulder surgery. Journal of Shoulder and Elbow Surgery, 2010, 19, 97-101.	1.2	93
7	The importance of being external. methodological insights for the external validation of machine learning models in medicine. Computer Methods and Programs in Biomedicine, 2021, 208, 106288.	2.6	72
8	Machine learning in laboratory medicine: waiting for the flood?. Clinical Chemistry and Laboratory Medicine, 2018, 56, 516-524.	1.4	70
9	Data work in healthcare: An Introduction. Health Informatics Journal, 2019, 25, 465-474.	1.1	60
10	When once is not enough. , 2005, , .		53
11	The Revival of the Notes Field: Leveraging the Unstructured Content in Electronic Health Records. Frontiers in Medicine, 2019, 6, 66.	1.2	52
12	Bridging the "last mile" gap between AI implementation and operation: "data awareness" that matters. Annals of Translational Medicine, 2020, 8, 501-501.	0.7	52
13	Applications of deep learning in dentistry. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2021, 132, 225-238.	0.2	42
14	Artificial intelligence-based tools to control healthcare associated infections: A systematic review of the literature. Journal of Infection and Public Health, 2020, 13, 1061-1077.	1.9	41
15	Interpretable heartbeat classification using local model-agnostic explanations on ECGs. Computers in Biology and Medicine, 2021, 133, 104393.	3.9	41
16	The proof of the pudding: in praise of a culture of real-world validation for medical artificial intelligence. Annals of Translational Medicine, 2019, 7, 161-161.	0.7	41
17	Leveraging underspecification in knowledge artifacts to foster collaborative activities in professional communities. International Journal of Human Computer Studies, 2013, 71, 24-45.	3.7	40
18	Affording Mechanisms: An Integrated View of Coordination and Knowledge Management. Computer Supported Cooperative Work, 2012, 21, 227-260.	1.9	38

#	ARTICLE	IF	CITATIONS
19	Leveraging Coordinative Conventions to Promote Collaboration Awareness. <i>Computer Supported Cooperative Work</i> , 2009, 18, 301-330.	1.9	35
20	Current practice in shoulder pathology: results of a web-based survey among a community of 1,084 orthopedic surgeons. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2012, 20, 803-815.	2.3	35
21	Rule-based tools for the configuration of ambient intelligence systems: a comparative user study. <i>Multimedia Tools and Applications</i> , 2017, 76, 5221-5241.	2.6	35
22	Fostering participation and co-evolution in sentient multimedia systems. <i>Journal of Visual Languages and Computing</i> , 2014, 25, 684-694.	1.8	34
23	Ground truthing from multi-rater labeling with three-way decision and possibility theory. <i>Information Sciences</i> , 2021, 545, 771-790.	4.0	34
24	Computational Coordination Mechanisms: A tale of a struggle for flexibility. <i>Computer Supported Cooperative Work</i> , 2013, 22, 475-529.	1.9	33
25	User-driven prioritization of features for a prospective InterPersonal Health Record: Perceptions from the Italian context. <i>Computers in Biology and Medicine</i> , 2015, 59, 202-210.	3.9	33
26	Exploiting collective knowledge with three-way decision theory: Cases from the questionnaire-based research. <i>International Journal of Approximate Reasoning</i> , 2017, 83, 356-370.	1.9	31
27	The three-way-in and three-way-out framework to treat and exploit ambiguity in data. <i>International Journal of Approximate Reasoning</i> , 2020, 119, 292-312.	1.9	30
28	Static and interactive infographics in daily tasks: A value-in-use and quality of interaction user study. <i>Computers in Human Behavior</i> , 2017, 71, 240-257.	5.1	29
29	Building Socially Embedded Technologies: Implications About Design. <i>Computer Supported Cooperative Work / Series Ed By: Dan Diaper and Colston Sanger</i> , 2015, , 217-270.	1.1	24
30	“Each to His Own” Distinguishing Activities, Roles and Artifacts in EUD Practices. <i>Lecture Notes in Information Systems and Organisation</i> , 2014, , 193-205.	0.4	23
31	Machine Learning for Health: Algorithm Auditing & Quality Control. <i>Journal of Medical Systems</i> , 2021, 45, 105.	2.2	23
32	As if sand were stone. New concepts and metrics to probe the ground on which to build trustable AI. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 219.	1.5	22
33	Has the Flood Entered the Basement? A Systematic Literature Review about Machine Learning in Laboratory Medicine. <i>Diagnostics</i> , 2021, 11, 372.	1.3	20
34	A comprehensive data quality methodology for web and structured data. <i>International Journal of Innovative Computing and Applications</i> , 2008, 1, 205.	0.2	19
35	How is test laboratory data used and characterised by machine learning models? A systematic review of diagnostic and prognostic models developed for COVID-19 patients using only laboratory data. <i>Clinical Chemistry and Laboratory Medicine</i> , 2022, 60, 1887-1901.	1.4	19
36	The Elephant in the Machine: Proposing a New Metric of Data Reliability and its Application to a Medical Case to Assess Classification Reliability. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4014.	1.3	18

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37	Assessment and prediction of spine surgery invasiveness with machine learning techniques. Computers in Biology and Medicine, 2020, 121, 103796.	3.9	18
38	Providing awareness through situated process maps. , 2007, , .		17
39	WOAD. Journal of Organizational and End User Computing, 2010, 22, 1-20.	1.6	17
40	A Giant with Feet of Clay: On the Validity of the Data that Feed Machine Learning in Medicine. Lecture Notes in Information Systems and Organisation, 2019, , 121-136.	0.4	17
41	The need to move away from agential-AI: Empirical investigations, useful concepts and open issues. International Journal of Human Computer Studies, 2021, 155, 102696.	3.7	17
42	Three-Way Decision for Handling Uncertainty in Machine Learning: A Narrative Review. Lecture Notes in Computer Science, 2020, , 137-152.	1.0	17
43	The elephant in the record: On the multiplicity of data recording work. Health Informatics Journal, 2019, 25, 475-490.	1.1	16
44	“and do it the usual way” fostering awareness of work conventions in document-mediated collaboration. , 2007, , 119-138.		16
45	External validation of Machine Learning models for COVID-19 detection based on Complete Blood Count. Health Information Science and Systems, 2021, 9, 37.	3.4	16
46	Information Quality in Healthcare. Data-centric Systems and Applications, 2016, , 403-419.	0.2	14
47	Djess - a context-sharing middleware to deploy distributed inference systems in pervasive computing domains. , 0, , .		13
48	PROs in the wild: Assessing the validity of patient reported outcomes in an electronic registry. Computer Methods and Programs in Biomedicine, 2019, 181, 104837.	2.6	12
49	Studying human-AI collaboration protocols: the case of the Kasparov™s law in radiological double reading. Health Information Science and Systems, 2021, 9, 8.	3.4	12
50	Prediction of ICU admission for COVID-19 patients: a Machine Learning approach based on Complete Blood Count data. , 2021, , .		12
51	ProDoc: an Electronic Patient Record to Foster Process-Oriented Practices. , 2009, , 85-104.		12
52	“Remain Faithful to the Earth!”: Reporting Experiences of Artifact-Centered Design in Healthcare. Computer Supported Cooperative Work, 2011, 20, 231-263.	1.9	11
53	Supporting artifact-mediated discourses through a recursive annotation tool. , 2012, , .		11
54	A User Study to Assess the Situated Social Value of Open Data in Healthcare. Procedia Computer Science, 2015, 64, 306-313.	1.2	11

#	ARTICLE	IF	CITATIONS
55	Three-way decision and conformal prediction: Isomorphisms, differences and theoretical properties of cautious learning approaches. <i>Information Sciences</i> , 2021, 579, 347-367.	4.0	11
56	Knowledge Artifacts as Bridges between Theory and Practice: The Clinical Pathway Case. <i>International Federation for Information Processing</i> , 2008, , 37-50.	0.4	11
57	A robust and parsimonious machine learning method to predict ICU admission of COVID-19 patients. <i>Medical and Biological Engineering and Computing</i> , 2022, , 1.	1.6	11
58	On a QUEST for a web-based tool promoting knowledge-sharing in medical communities. <i>Behaviour and Information Technology</i> , 2015, 34, 598-612.	2.5	10
59	Supporting Practices of Positive Redundancy for Seamless Care. , 2008, , .		9
60	End-User Development in Ambient Intelligence. , 2015, , .		9
61	The multicenter European Biological Variation Study (EuBIVAS): a new glance provided by the Principal Component Analysis (PCA), a machine learning unsupervised algorithms, based on the basic metabolic panel linked measurands. <i>Clinical Chemistry and Laboratory Medicine</i> , 2022, 60, 556-568.	1.4	9
62	Biases Affecting Human Decision Making in AI-Supported Second Opinion Settings. <i>Lecture Notes in Computer Science</i> , 2019, , 283-294.	1.0	9
63	Gamification Techniques for Rule Management in Ambient Intelligence. <i>Lecture Notes in Computer Science</i> , 2015, , 353-356.	1.0	9
64	The Knowledge-stream Model - A Comprehensive Model for Knowledge Circulation in Communities of Knowledgeable Practitioners. , 2014, , .		9
65	“Drops Hollowing the Stone” Workarounds as Resources for Better Task-Artifact Fit. , 2013, , 103-122.		8
66	Malleability in the Hands of End-Users. , 2017, , 137-163.		8
67	“Whatever Works” , 2012, , 79-110.		8
68	CASMAS: Supporting Collaboration in Pervasive Environments. , 0, , .		7
69	Active artifacts as bridges between context and community knowledge sources. , 2009, , .		7
70	Data-work in Healthcare: The New Work Ecologies of Healthcare Infrastructures. , 2016, , .		7
71	Valuable Visualization of Healthcare Information. , 2016, , .		7
72	Questionnaires in the design and evaluation of community-oriented technologies. <i>International Journal of Web Based Communities</i> , 2017, 13, 4.	0.2	7

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73	Morphological and molecular characterization of human hamstrings shows that tendon features are not influenced by donor age. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2018, 26, 343-352.	2.3	7
74	Making Open Data more Personal Through a Social Value Perspective: a Methodological Approach. <i>Information Systems Frontiers</i> , 2020, 22, 131-148.	4.1	7
75	New Frontiers in Explainable AI: Understanding the GI to Interpret the GO. <i>Lecture Notes in Computer Science</i> , 2019, , 27-47.	1.0	7
76	Web of Active Documents: An Architecture for Flexible Electronic Patient Records. <i>Communications in Computer and Information Science</i> , 2011, , 44-56.	0.4	7
77	A Comprehensive Data Quality Methodology for Web and Structured Data. , 2007, , .		6
78	Investigating the role of a Web-based tool to promote collective knowledge in medical communities. <i>Knowledge Management Research and Practice</i> , 2012, 10, 392-404.	2.7	6
79	Management of knee injuries: consensus-based indications from a large community of orthopaedic surgeons. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 708-719.	2.3	6
80	When the web supports communities of place: the 'Social Street' case in Italy. <i>International Journal of Web Based Communities</i> , 2016, 12, 216.	0.2	6
81	The semiotics of configurations for the immanent design of interactive computational systems. <i>Journal of Visual Languages and Computing</i> , 2017, 40, 65-90.	1.8	6
82	Spine surgery registries: hope for evidence-based spinal care?. <i>Journal of Spine Surgery</i> , 2018, 4, 456-458.	0.6	6
83	Ordinal labels in machine learning: a user-centered approach to improve data validity in medical settings. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 142.	1.5	6
84	LWOAD: A Specification Language to Enable the End-User Development of Coordinative Functionalities. <i>Lecture Notes in Computer Science</i> , 2009, , 146-165.	1.0	6
85	Exploring Medical Data Classification with Three-Way Decision Trees. , 2019, , .		6
86	Repetita iuvant: Exploring and Supporting Redundancy in Hospital Practices. <i>Computer Supported Cooperative Work</i> , 2019, 28, 61-94.	1.9	5
87	Questionnaires in the design and evaluation of community-oriented technologies. <i>International Journal of Web Based Communities</i> , 2017, 13, 1.	0.2	5
88	“Made with Knowledge” - Disentangling the IT Knowledge Artifact by a Qualitative Literature Review. , 2014, , .		5
89	An Information Reliability Index as a Simple Consumer-Oriented Indication of Quality of Medical Web Sites. <i>Intelligent Systems Reference Library</i> , 2013, , 159-177.	1.0	4
90	Knowledge artifacts within knowing communities to foster collective knowledge. , 2014, , .		4

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91	Touch&Screen. , 2016, , .		4
92	3D printing objects as knowledge artifacts for a do-it-yourself approach in clinical practice. Data Technologies and Applications, 2018, 52, 163-186.	0.9	4
93	Personal Health Records and Patient-Oriented Infrastructures: Building Technology, Shaping (New) Patients, and Healthcare Practitioners. Computer Supported Cooperative Work, 2019, 28, 1001-1009.	1.9	4
94	“Through the Glassy Box” Supporting Appropriation in User Communities. , 2014, , 173-187.		4
95	To Err is (only) Human. Reflections on “How to Move from Accuracy to Trust for” Medical AI. Lecture Notes in Information Systems and Organisation, 2021, , 36-49.	0.4	4
96	Programmed Inefficiencies in DSS-Supported Human Decision Making. Lecture Notes in Computer Science, 2019, , 201-212.	1.0	4
97	Decisions are not all equal “Introducing a utility metric based on case-wise raters’ perceptions. Computer Methods and Programs in Biomedicine, 2022, 221, 106930.	2.6	4
98	Designing Computational Places for Communities within Organizations. , 2006, , .		3
99	Providing end-users with a visual editor to make their electronic documents active. , 2012, , .		3
100	Tendon-Derived Stem Cells for Rotator Cuff Repair. Operative Techniques in Orthopaedics, 2016, 26, 147-154.	0.2	3
101	What Arthroscopic Skills Need to Be Trained Before Continuing Safe Training in the Operating Room?. Journal of Knee Surgery, 2017, 30, 718-724.	0.9	3
102	Benefits and Risks of Machine Learning Decision Support Systems “Reply. JAMA - Journal of the American Medical Association, 2017, 318, 2356.	3.8	3
103	Unity Is Intelligence: A Collective Intelligence Experiment on ECG Reading to Improve Diagnostic Performance in Cardiology. Journal of Intelligence, 2021, 9, 17.	1.3	3
104	Reporting a User Study on a Visual Editor to Compose Rules in Active Documents. Advances in Human and Social Aspects of Technology Book Series, 2014, , 182-203.	0.3	3
105	Human-Data Interaction in Healthcare. Advances in Business Information Systems and Analytics Book Series, 2017, , 184-203.	0.3	3
106	At the Boundary of Communities and Roles: Boundary Objects and Knowledge Artifacts as Resources for IS Design. Lecture Notes in Information Systems and Organisation, 2015, , 149-160.	0.4	3
107	From Care for Design to Becoming Matters: New Perspectives for the Development of Socio-technical Systems. Lecture Notes in Information Systems and Organisation, 2016, , 113-127.	0.4	3
108	Back to the Feature: A Neural-Symbolic Perspective on Explainable AI. Lecture Notes in Computer Science, 2020, , 39-55.	1.0	3

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109	Much undo about nothing?. , 2008, , .		2
110	Seams and Sutures in IT Artifacts. International Journal of Systems and Society, 2016, 3, 18-31.	0.1	2
111	Trading off between control and autonomy: a narrative review around de-design. Behaviour and Information Technology, 2020, 39, 5-26.	2.5	2
112	IGV Short Scale to Assess Implicit Value of Visualizations through Explicit Interaction. Applied Sciences (Switzerland), 2020, 10, 6189.	1.3	2
113	Harvesting Collective Agreement in Community Oriented Surveys: The Medical Case. , 2012, , 81-96.		2
114	Sliding Knots. , 2018, , 161-174.		1
115	Faithful to the Earth: Reporting Experiences of Artifact-Centered Design in Healthcare. , 2010, , 25-44.		1
116	Ensemble Learning, Social Choice and Collective Intelligence. Lecture Notes in Computer Science, 2020, , 53-65.	1.0	1
117	Assessing the impact of medical AI: a survey of physiciansâ€™ perceptions. , 2021, , .		1
118	Promoting Process-Based Collaboration Awareness to Integrate Care Teams. Lecture Notes in Business Information Processing, 2009, , 385-396.	0.8	1
119	Needs and Wishes from the Arthroscopy Community. , 2015, , 7-15.		1
120	â€œMade with Knowledgeâ€ Reporting a Qualitative Literature Review on the Concept of the IT Knowledge Artifact. Communications in Computer and Information Science, 2015, , 571-585.	0.4	1
121	â€œYou Cannot Grow Viscum on Soilâ€ The â€œGoodâ€ Corporate Social Media Also Fail. , 2016, , 57-74.		1
122	Human-Data Interaction in Healthcare. , 2020, , 1148-1167.		1
123	Artificial Intelligence in Laboratory Medicine. , 2022, , 803-812.		1
124	HDQ: A meta-model for the quality improvement of heterogeneous data. , 2007, , .		0
125	A pervasive computing architecture fostering integration in patient centred communities of care. International Journal of Healthcare Technology and Management, 2009, 10, 49.	0.1	0
126	Tell Me Another Story, Granpa! Requirements for Sharing Lived Lives Online. I-com, 2012, 11, 14-18.	0.9	0



#	ARTICLE	IF	CITATIONS
127	Determining factors in ICT adoption by MSME's in agriculture clusters: An exploratory case study. , 2013, , .		0
128	Erratum to "Infectious and thromboembolic complications of arthroscopic shoulder surgery" [J Shoulder Elbow Surg 2010 Jan;19(1):97-101]. Journal of Shoulder and Elbow Surgery, 2014, 23, 598.	1.2	0
129	A User Study on How to Render Criticality in Interfaces that Visualize Process Maps. , 2010, , 379-386.		0
130	WOAD. , 2012, , 127-147.		0
131	Back to the Future of EUD: The Logic of Bricolage for the Paving of EUD Roadmaps. Lecture Notes in Computer Science, 2013, , 254-259.	1.0	0
132	Virtual Patients for Knowledge Sharing and Clinical Practice Training: A Gamified Approach. Lecture Notes in Computer Science, 2016, , 329-335.	1.0	0
133	Moving Western Neighborliness to East?. , 2016, , .		0
134	Fuzzification of Ordinal Classes. The Case of the HL7 Severity Grading. Lecture Notes in Computer Science, 2018, , 64-77.	1.0	0
135	Drift of a Corporate Social Media: The Design and Outcomes of a Longitudinal Study. Lecture Notes in Information Systems and Organisation, 2019, , 189-201.	0.4	0
136	Reporting Some Marginal Discourses to Root a De-design Approach in IS Development. Lecture Notes in Information Systems and Organisation, 2020, , 273-288.	0.4	0
137	Routine blood tests as an active surveillance to monitor COVID-19 prevalence. A retrospective study. Acta Biomedica, 2020, 91, e2020009.	0.2	0
138	Evidence of significant difference in key COVID-19 biomarkers during the Italian lockdown strategy. A retrospective study on patients admitted to a hospital emergency department in Northern Italy. Acta Biomedica, 2020, 91, e2020156.	0.2	0