

# Federico Cabitza

## List of Publications by Year in descending order

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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	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
2	Artificial Intelligence in Laboratory Medicine. , 2022, , 803-812.		1
3	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
4	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
5	Decisions are not all equal—Introducing a utility metric based on case-wise raters’ perceptions. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 221, 106930.	2.6	4
6	Applications of deep learning in dentistry. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2021, 132, 225-238.	0.2	42
7	Ground truthing from multi-rater labeling with three-way decision and possibility theory. <i>Information Sciences</i> , 2021, 545, 771-790.	4.0	34
8	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
9	Studying human-AI collaboration protocols: the case of the Kasparov’s law in radiological double reading. <i>Health Information Science and Systems</i> , 2021, 9, 8.	3.4	12
10	Unity Is Intelligence: A Collective Intelligence Experiment on ECG Reading to Improve Diagnostic Performance in Cardiology. <i>Journal of Intelligence</i> , 2021, 9, 17.	1.3	3
11	Prediction of ICU admission for COVID-19 patients: a Machine Learning approach based on Complete Blood Count data. , 2021, , .		12
12	Interpretable heartbeat classification using local model-agnostic explanations on ECGs. <i>Computers in Biology and Medicine</i> , 2021, 133, 104393.	3.9	41
13	The importance of being external. methodological insights for the external validation of machine learning models in medicine. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106288.	2.6	72
14	The need to separate the wheat from the chaff in medical informatics. <i>International Journal of Medical Informatics</i> , 2021, 153, 104510.	1.6	128
15	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
16	The need to move away from agential-AI: Empirical investigations, useful concepts and open issues. <i>International Journal of Human Computer Studies</i> , 2021, 155, 102696.	3.7	17
17	Development, evaluation, and validation of machine learning models for COVID-19 detection based on routine blood tests. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021, 59, 421-431.	1.4	109
18	To Err is (only) Human. Reflections on How to Move from Accuracy to Trust for Medical AI. <i>Lecture Notes in Information Systems and Organisation</i> , 2021, , 36-49.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Assessing the impact of medical AI: a survey of physicians'™ perceptions. , 2021, , .		1
20	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
21	Machine Learning for Health: Algorithm Auditing & Quality Control. Journal of Medical Systems, 2021, 45, 105.	2.2	23
22	Making Open Data more Personal Through a Social Value Perspective: a Methodological Approach. Information Systems Frontiers, 2020, 22, 131-148.	4.1	7
23	Trading off between control and autonomy: a narrative review around de-design. Behaviour and Information Technology, 2020, 39, 5-26.	2.5	2
24	IGV Short Scale to Assess Implicit Value of Visualizations through Explicit Interaction. Applied Sciences (Switzerland), 2020, 10, 6189.	1.3	2
25	As if sand were stone. New concepts and metrics to probe the ground on which to build trustable AI. BMC Medical Informatics and Decision Making, 2020, 20, 219.	1.5	22
26	Ordinal labels in machine learning: a user-centered approach to improve data validity in medical settings. BMC Medical Informatics and Decision Making, 2020, 20, 142.	1.5	6
27	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
28	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
29	The Elephant in the Machine: Proposing a New Metric of Data Reliability and its Application to a Medical Case to Assess Classification Reliability. Applied Sciences (Switzerland), 2020, 10, 4014.	1.3	18
30	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
31	The three-way-in and three-way-out framework to treat and exploit ambiguity in data. International Journal of Approximate Reasoning, 2020, 119, 292-312.	1.9	30
32	Three-Way Decision for Handling Uncertainty in Machine Learning: A Narrative Review. Lecture Notes in Computer Science, 2020, , 137-152.	1.0	17
33	Ensemble Learning, Social Choice and Collective Intelligence. Lecture Notes in Computer Science, 2020, , 53-65.	1.0	1
34	Assessment and prediction of spine surgery invasiveness with machine learning techniques. Computers in Biology and Medicine, 2020, 121, 103796.	3.9	18
35	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
36	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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37	Human-Data Interaction in Healthcare. , 2020, , 1148-1167.		1
38	Routine blood tests as an active surveillance to monitor COVID-19 prevalence. A retrospective study. Acta Biomedica, 2020, 91, e2020009.	0.2	0
39	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
40	Repetita iuvant: Exploring and Supporting Redundancy in Hospital Practices. Computer Supported Cooperative Work, 2019, 28, 61-94.	1.9	5
41	Data work in healthcare: An Introduction. Health Informatics Journal, 2019, 25, 465-474.	1.1	60
42	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
43	The elephant in the record: On the multiplicity of data recording work. Health Informatics Journal, 2019, 25, 475-490.	1.1	16
44	The Revival of the Notes Field: Leveraging the Unstructured Content in Electronic Health Records. Frontiers in Medicine, 2019, 6, 66.	1.2	52
45	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
46	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
47	Biases Affecting Human Decision Making in AI-Supported Second Opinion Settings. Lecture Notes in Computer Science, 2019, , 283-294.	1.0	9
48	New Frontiers in Explainable AI: Understanding the GI to Interpret the GO. Lecture Notes in Computer Science, 2019, , 27-47.	1.0	7
49	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
50	Exploring Medical Data Classification with Three-Way Decision Trees. , 2019, , .		6
51	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
52	Programmed Inefficiencies in DSS-Supported Human Decision Making. Lecture Notes in Computer Science, 2019, , 201-212.	1.0	4
53	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
54	Machine learning in laboratory medicine: waiting for the flood?. Clinical Chemistry and Laboratory Medicine, 2018, 56, 516-524.	1.4	70

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55	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
56	Spine surgery registries: hope for evidence-based spinal care?. <i>Journal of Spine Surgery</i> , 2018, 4, 456-458.	0.6	6
57	Sliding Knots. , 2018, , 161-174.		1
58	Machine Learning in Orthopedics: A Literature Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 75.	2.0	148
59	Fuzzification of Ordinal Classes. The Case of the HL7 Severity Grading. <i>Lecture Notes in Computer Science</i> , 2018, , 64-77.	1.0	0
60	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
61	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
62	What Arthroscopic Skills Need to Be Trained Before Continuing Safe Training in the Operating Room?. <i>Journal of Knee Surgery</i> , 2017, 30, 718-724.	0.9	3
63	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
64	Questionnaires in the design and evaluation of community-oriented technologies. <i>International Journal of Web Based Communities</i> , 2017, 13, 4.	0.2	7
65	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
66	Unintended Consequences of Machine Learning in Medicine. <i>JAMA - Journal of the American Medical Association</i> , 2017, 318, 517.	3.8	574
67	Benefits and Risks of Machine Learning Decision Support Systems—Reply. <i>JAMA - Journal of the American Medical Association</i> , 2017, 318, 2356.	3.8	3
68	Malleability in the Hands of End-Users. , 2017, , 137-163.		8
69	Questionnaires in the design and evaluation of community-oriented technologies. <i>International Journal of Web Based Communities</i> , 2017, 13, 1.	0.2	5
70	Human-Data Interaction in Healthcare. <i>Advances in Business Information Systems and Analytics Book Series</i> , 2017, , 184-203.	0.3	3
71	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
72	Seams and Sutures in IT Artifacts. <i>International Journal of Systems and Society</i> , 2016, 3, 18-31.	0.1	2

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73	Touch&Screen. , 2016, , .		4
74	Information Quality in Healthcare. Data-centric Systems and Applications, 2016, , 403-419.	0.2	14
75	Data-work in Healthcare: The New Work Ecologies of Healthcare Infrastructures. , 2016, , .		7
76	Valuable Visualization of Healthcare Information. , 2016, , .		7
77	Tendon-Derived Stem Cells for Rotator Cuff Repair. Operative Techniques in Orthopaedics, 2016, 26, 147-154.	0.2	3
78	Virtual Patients for Knowledge Sharing and Clinical Practice Training: A Gamified Approach. Lecture Notes in Computer Science, 2016, , 329-335.	1.0	0
79	â€œYou Cannot Grow Viscum on Soilâ€: The â€œGoodâ€-Corporate Social Media Also Fail. , 2016, , 57-74.		1
80	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
81	Moving Western Neighborliness to East?. , 2016, , .		0
82	A User Study to Assess the Situated Social Value of Open Data in Healthcare. Procedia Computer Science, 2015, 64, 306-313.	1.2	11
83	End-User Development in Ambient Intelligence. , 2015, , .		9
84	On a QUEST for a web-based tool promoting knowledge-sharing in medical communities. Behaviour and Information Technology, 2015, 34, 598-612.	2.5	10
85	User-driven prioritization of features for a prospective InterPersonal Health Record: Perceptions from the Italian context. Computers in Biology and Medicine, 2015, 59, 202-210.	3.9	33
86	Building Socially Embedded Technologies: Implications About Design. Computer Supported Cooperative Work / Series Ed By: Dan Diaper and Colston Sanger, 2015, , 217-270.	1.1	24
87	Gamification Techniques for Rule Management in Ambient Intelligence. Lecture Notes in Computer Science, 2015, , 353-356.	1.0	9
88	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
89	Needs and Wishes from the Arthroscopy Community. , 2015, , 7-15.		1
90	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

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91	Knowledge artifacts within knowing communities to foster collective knowledge. , 2014, , .		4
92	Fostering participation and co-evolution in sentient multimedia systems. Journal of Visual Languages and Computing, 2014, 25, 684-694.	1.8	34
93	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
94	"Through the Glassy Box" Supporting Appropriation in User Communities. , 2014, , 173-187.		4
95	"Each to His Own" Distinguishing Activities, Roles and Artifacts in EUD Practices. Lecture Notes in Information Systems and Organisation, 2014, , 193-205.	0.4	23
96	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
97	"Made with Knowledge" Disentangling the IT Knowledge Artifact by a Qualitative Literature Review. , 2014, , .		5
98	The Knowledge-stream Model - A Comprehensive Model for Knowledge Circulation in Communities of Knowledgeable Practitioners. , 2014, , .		9
99	Management of knee injuries: consensus-based indications from a large community of orthopaedic surgeons. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 708-719.	2.3	6
100	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
101	Computational Coordination Mechanisms: A tale of a struggle for flexibility. Computer Supported Cooperative Work, 2013, 22, 475-529.	1.9	33
102	Determining factors in ICT adoption by MSME's in agriculture clusters: An exploratory case study. , 2013, , .		0
103	An Information Reliability Index as a Simple Consumer-Oriented Indication of Quality of Medical Web Sites. Intelligent Systems Reference Library, 2013, , 159-177.	1.0	4
104	"Drops Hollowing the Stone" Workarounds as Resources for Better Task-Artifact Fit. , 2013, , 103-122.		8
105	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
106	Supporting artifact-mediated discourses through a recursive annotation tool. , 2012, , .		11
107	Tell Me Another Story, Granpa! Requirements for Sharing Lived Lives Online. I-com, 2012, 11, 14-18.	0.9	0
108	Investigating the role of a Web-based tool to promote collective knowledge in medical communities. Knowledge Management Research and Practice, 2012, 10, 392-404.	2.7	6

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109	Providing end-users with a visual editor to make their electronic documents active. , 2012, , .		3
110	Affording Mechanisms: An Integrated View of Coordination and Knowledge Management. Computer Supported Cooperative Work, 2012, 21, 227-260.	1.9	38
111	Current practice in shoulder pathology: results of a web-based survey among a community of 1,084 orthopedic surgeons. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 803-815.	2.3	35
112	Harvesting Collective Agreement in Community Oriented Surveys: The Medical Case. , 2012, , 81-96.		2
113	â€œWhatever Worksâ€, 2012, , 79-110.		8
114	WOAD. , 2012, , 127-147.		0
115	â€œRemain Faithful to the Earth!â€: Reporting Experiences of Artifact-Centered Design in Healthcare. Computer Supported Cooperative Work, 2011, 20, 231-263.	1.9	11
116	Web of Active Documents: An Architecture for Flexible Electronic Patient Records. Communications in Computer and Information Science, 2011, , 44-56.	0.4	7
117	WOAD. Journal of Organizational and End User Computing, 2010, 22, 1-20.	1.6	17
118	Infectious and thromboembolic complications of arthroscopic shoulder surgery. Journal of Shoulder and Elbow Surgery, 2010, 19, 97-101.	1.2	93
119	Faithful to the Earth: Reporting Experiences of Artifact-Centered Design in Healthcare. , 2010, , 25-44.		1
120	A User Study on How to Render Criticality in Interfaces that Visualize Process Maps. , 2010, , 379-386.		0
121	Active artifacts as bridges between context and community knowledge sources. , 2009, , .		7
122	Leveraging Coordinative Conventions to Promote Collaboration Awareness. Computer Supported Cooperative Work, 2009, 18, 301-330.	1.9	35
123	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
124	ProDoc: an Electronic Patient Record to Foster Process-Oriented Practices. , 2009, , 85-104.		12
125	LWOAD: A Specification Language to Enable the End-User Development of Coordinative Functionalities. Lecture Notes in Computer Science, 2009, , 146-165.	1.0	6
126	Promoting Process-Based Collaboration Awareness to Integrate Care Teams. Lecture Notes in Business Information Processing, 2009, , 385-396.	0.8	1



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127	Supporting Practices of Positive Redundancy for Seamless Care. , 2008, , .		9
128	Much undo about nothing?. , 2008, , .		2
129	A comprehensive data quality methodology for web and structured data. International Journal of Innovative Computing and Applications, 2008, 1, 205.	0.2	19
130	Knowledge Artifacts as Bridges between Theory and Practice: The Clinical Pathway Case. International Federation for Information Processing, 2008, , 37-50.	0.4	11
131	Providing awareness through situated process maps. , 2007, , .		17
132	HDQ: A meta-model for the quality improvement of heterogeneous data. , 2007, , .		0
133	A Comprehensive Data Quality Methodology for Web and Structured Data. , 2007, , .		6
134	“and do it the usual way” fostering awareness of work conventions in document-mediated collaboration. , 2007, , 119-138.		16
135	Designing Computational Places for Communities within Organizations. , 2006, , .		3
136	When once is not enough. , 2005, , .		53
137	Djess - a context-sharing middleware to deploy distributed inference systems in pervasive computing domains. , 0, , .		13
138	CASMAS: Supporting Collaboration in Pervasive Environments. , 0, , .		7