Carlo Combi

List of Publications by Year
in descending order

140 papers	1,912 citations	361045 20 h-index	360668 35 g-index
148 all docs	148 docs citations	148 times ranked	1373 citing authors

#	Article	IF	Citations
1	Adding flexibility to uncertainty: Flexible Simple Temporal Networks with Uncertainty (FTNU). Information Sciences, 2022, 584, 784-807.	4.0	4
2	A 3-Window Framework for the Discovery and Interpretation of Predictive Temporal Functional Dependencies. Lecture Notes in Computer Science, 2022, , 299-309.	1.0	1
3	Consistency checking of STNs with decisions: Managing temporal and access-control constraints in a seamless way. Information and Computation, 2021, 280, 104637.	0.5	6
4	Checking Sets of Pure Evolving Association Rules. Fundamenta Informaticae, 2021, 178, 283-313.	0.3	1
5	Publishing Artificial Intelligence Research Papers: A Tale of Three Journals. Artificial Intelligence in Medicine, 2021, 113, 102037.	3.8	1
6	Enriching surgical process models by BPMN extensions for temporal durations. , 2021, , .		5
7	Discovering predictive trend-event patterns in temporal clinical data. , 2021, , .		4
8	Resource Controllability of Business Processes Under Conditional Uncertainty. Journal on Data Semantics, 2021, 10, 19.	2.0	0
9	Seamless conceptual modeling of processes with transactional and analytical data. Data and Knowledge Engineering, 2021, 134, 101895.	2.1	1
10	Health Informatics: Clinical Information Systems and Artificial Intelligence to Support Medicine in the CoViD-19 Pandemic. , 2021, , .		9
11	Integrated Exploration of Data-Intensive Business Processes. IEEE Transactions on Services Computing, 2021, , 1-1.	3.2	1
12	Multidimensional Design and Analysis of a Data Mart Related to Healthcare Treatments with Biologic Drugs. , 2021, , .		0
13	Enabling instant- and interval-based semantics in multidimensional data models: the T+MultiDim Model. Information Sciences, 2020, 518, 413-435.	4.0	9
14	Discovering Evolving Temporal Information: Theory and Application to Clinical Databases. SN Computer Science, 2020, 1, 1.	2.3	2
15	Normalizing Spontaneous Reports Into MedDRA: Some Experiments With <inline-formula> <tex-math notation="LaTeX">$mathsf{MagiCoder}$</tex-math> </inline-formula>. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 95-102.	3.9	8
16	Clinical Information Systems and Artificial Intelligence: Recent Research Trends. Yearbook of Medical Informatics, 2019, 28, 083-094.	0.8	28
17	The Rise of Enforceable Business Processes from the Hashes of Blockchain-Based Smart Contracts. Lecture Notes in Business Information Processing, 2019, , 130-138.	0.8	5
18	A modular approach to the specification and management of time duration constraints in BPMN. Information Systems, 2019, 84, 111-144.	2.4	9

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19	Managing time-awareness in modularized processes. Software and Systems Modeling, 2019, 18, 1135-1154.	2.2	7
20	Mining Compact Predictive Pattern Sets Using Classification Model. Lecture Notes in Computer Science, 2019, 11526, 386-396.	1.0	6
21	Resource Controllability of Workflows Under Conditional Uncertainty. Lecture Notes in Business Information Processing, 2019, , 68-80.	0.8	3
22	Discovering and Analyzing Trend-Event Patterns on Clinical Data. , 2019, , .		6
23	A hybrid logic for XML reference constraints. Data and Knowledge Engineering, 2018, 115, 94-115.	2.1	1
24	Managing Decision Tasks and Events in Time-Aware Business Process Models. Lecture Notes in Computer Science, 2018, , 102-118.	1.0	8
25	A Logical Formalization of Time-Critical Processes with Resources. Lecture Notes in Business Information Processing, 2018, , 20-36.	0.8	1
26	From narrative descriptions to MedDRA: automagically encoding adverse drug reactions. Journal of Biomedical Informatics, 2018, 84, 184-199.	2.5	21
27	Conceptual modeling of inter-dependencies between processes and data. , 2018, , .		12
28	Conceptual Modeling of Processes and Data: Connecting Different Perspectives. Lecture Notes in Computer Science, 2018, , 236-250.	1.0	11
29	Editorial from the new Editor-in-Chief: Artificial Intelligence in Medicine and the forthcoming challenges. Artificial Intelligence in Medicine, 2017, 76, 37-39.	3.8	18
30	Discovering Quantitative Temporal Functional Dependencies on Clinical Data. , 2017, , .		6
31	Mapping Free Text into MedDRA by Natural Language Processing. , 2017, , .		6
32	A Decision Support Visualization Tool for Infection Management Based on BMPN and DMN. Communications in Computer and Information Science, 2017, , 158-168.	0.4	1
33	A Methodological Framework for the Integrated Design of Decision-Intensive Care Pathwaysâ€"an Application to the Management of COPD Patients. Journal of Healthcare Informatics Research, 2017, 1, 157-217.	5.3	18
34	Guest Editorial: Temporal representation and reasoning. Annals of Mathematics and Artificial Intelligence, 2017, 80, 171-173.	0.9	0
35	A Process-Oriented Approach for Supporting Clinical Decisions for Infection Management. , 2017, , .		12
36	A Co-occurrence Based MedDRA Terminology Generation: Some Preliminary Results. Lecture Notes in Computer Science, 2017, , 215-220.	1.0	8

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37	Towards Dynamic Duration Constraints for Therapy and Monitoring Tasks. Lecture Notes in Computer Science, 2017, , 223-233.	1.0	2
38	Modeling and handling duration constraints in BPMN 2.0. , 2017, , .		10
39	Access Controlled Temporal Networks. , 2017, , .		8
40	Driving time-dependent paths in clinical BPMN processes. , 2017, , .		2
41	Session details: Session 5: Clinical Databases and Information Systems. , 2017, , .		0
42	Models and Architectures for the Enactment of Healthcare Processes. , 2017, , 3-33.		0
43	Telemedicine for Developing Countries. Applied Clinical Informatics, 2016, 07, 1025-1050.	0.8	175
44	Security Constraints in Temporal Role-Based Access-Controlled Workflows. , 2016, , .		8
45	Seamless Design of Decision-Intensive Care Pathways. , 2016, , .		15
46	Mining approximate interval-based temporal dependencies. Acta Informatica, 2016, 53, 547-585.	0.5	5
47	Controlling Time-Awareness in Modularized Processes. Lecture Notes in Business Information Processing, 2016, , 157-172.	0.8	11
48	A Framework for Mining Evolution Rules and Its Application to the Clinical Domain. , 2015, , .		4
49	Automagically Encoding Adverse Drug Reactions in MedDRA. , 2015, , .		10
50	The Price of Evolution in Temporal Databases. , 2015, , .		3
51	A Sound-and-Complete Propagation-Based Algorithm for Checking the Dynamic Consistency of Conditional Simple Temporal Networks. , 2015, , .		20
52	Design, Development, Deployment of a Telemedicine System in a Developing Country: Dealing with Organizational and Social Issues. , 2015, , .		5
53	BPMN-Based Representation and Comparison of Clinical Pathways for Catheter-Related Bloodstream Infections. , 2015, , .		18
54	Mining approximate temporal functional dependencies with pure temporal grouping in clinical databases. Computers in Biology and Medicine, 2015, 62, 306-324.	3.9	21

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55	Spatiotemporal data visualisation for homecare monitoring of elderly people. Artificial Intelligence in Medicine, 2015, 65, 97-111.	3.8	20
56	Conceptual Modeling of Clinical Pathways: Making Data and Processes Connected. Lecture Notes in Computer Science, 2015, , 57-62.	1.0	7
57	Thirty years of artificial intelligence in medicine (AIME) conferences: A review of research themes. Artificial Intelligence in Medicine, 2015, 65, 61-73.	3.8	84
58	Simple Temporal Networks with Partially Shrinkable Uncertainty. , 2015, , .		4
59	A Logical Framework for XML Reference Specification. Lecture Notes in Computer Science, 2015, , 258-267.	1.0	2
60	Interval-based temporal functional dependencies: specification and verification. Annals of Mathematics and Artificial Intelligence, 2014, 71, 85-130.	0.9	4
61	Representing Business Processes Through a Temporal Data-Centric Workflow Modeling Language: An Application to the Management of Clinical Pathways. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1182-1203.	5.9	37
62	An OLAP-Based Approach to Modeling and Querying Granular Temporal Trends. Lecture Notes in Computer Science, 2014, , 69-77.	1.0	1
63	An Algorithm for Checking the Dynamic Controllability of a Conditional Simple Temporal Network with Uncertainty - Revisited. Communications in Computer and Information Science, 2014, , 314-331.	0.4	13
64	Extraction, Analysis, and Visualization of Temporal Association Rules from Interval-Based Clinical Data. Lecture Notes in Computer Science, 2013, , 238-247.	1.0	8
65	Artificial intelligence in medicine AIME 2011. Artificial Intelligence in Medicine, 2013, 57, 87-89.	3.8	2
66	Multiple Temporal Axes for Visualising the Behaviour of Elders Living Alone. , 2013, , .		4
67	Mining Approximate Temporal Functional Dependencies Based on Pure Temporal Grouping. , 2013, , .		10
68	On the complexity of temporal controllabilities for workflow schemata. , 2012, , .		1
69	On the semantics of ST4SQL, a multidimensional spatio-temporal query language. , 2012, , .		0
70	Designing the reconciled schema for a pharmacovigilance data warehouse through a temporally-enhanced ER model. , 2012, , .		5
71	Modelling temporal, data-centric medical processes. , 2012, , .		8
72	ST4SQL. , 2012, , .		3

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73	SHB 2012. , 2012, , .		0
74	Conceptual modeling of flexible temporal workflows. ACM Transactions on Autonomous and Adaptive Systems, 2012, 7, 1-29.	0.4	25
75	Dealing with multigranular spatio-temporal databases to manage psychiatric epidemiology data. , 2012, , .		1
76	Modeling temporal dimensions of semistructured data. Journal of Intelligent Information Systems, 2012, 38, 601-644.	2.8	3
77	Visually defining and querying consistent multi-granular clinical temporal abstractions. Artificial Intelligence in Medicine, 2012, 54, 75-101.	3.8	21
78	Querying temporal clinical databases on granular trends. Journal of Biomedical Informatics, 2012, 45, 273-291.	2.5	23
79	Mario Stefanelli, 1945â€“2010. Artificial Intelligence in Medicine, 2011, 52, 53-55.	3.8	0
80	Artificial Intelligence in Medicine AIME 2009. Artificial Intelligence in Medicine, 2011, 52, 57-58.	3.8	2
81	An inference system for relationships between spatial granularities. , 2011, , .		3
82	Temporal Functional Dependencies Based on Interval Relations. , 2011, , .		4
83	A Uniform Framework for Temporal Functional Dependencies with Multiple Granularities. Lecture Notes in Computer Science, 2011, , 404-421.	1.0	13
84	Temporal Information Systems in Medicine. , 2010, , .		46
85	Towards Temporal Controllabilities for Workflow Schemata. , 2010, , .		14
86	Biomedical Data Mining. Methods of Information in Medicine, 2009, 48, 225-228.	0.7	6
87	Building Logical Specifications of Temporal Granularities through Algebraic Operators. , 2009, , .		1
88	Controllability in Temporal Conceptual Workflow Schemata. Lecture Notes in Computer Science, 2009, , 64-79.	1.0	42
89	Formal and conceptual modeling of spatio-temporal granularities. , 2009, , .		18
90	Temporal similarity measures for querying clinical workflows. Artificial Intelligence in Medicine, 2009, 46, 37-54.	3.8	45

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91	Temporal Object-Oriented Databases. , 2009, , 2998-3004.		1
92	Flaws in the Flow: The Weakness of Unstructured Business Process Modeling Languages Dealing with Data. Lecture Notes in Computer Science, 2009, , 42-59.	1.0	37
93	Temporalities for Workflow Management Systems. , 2009, , 255-273.		0
94	Visual MRI: Merging information visualization and non-parametric clustering techniques for MRI dataset analysis. Artificial Intelligence in Medicine, 2008, 44, 183-199.	3.8	9
95	Towards a Formal Framework for Spatio-Temporal Granularities. , 2008, , .		5
96	Capturing Temporal Constraints in Temporal ER Models. Lecture Notes in Computer Science, 2008, , 397-411.	1.0	20
97	The t4sql temporal query language. , 2007, , .		23
98	Conceptual Modeling of Temporal Clinical Workflows. , 2007, , .		20
99	Data mining with Temporal Abstractions: learning rules from time series. Data Mining and Knowledge Discovery, 2007, 15, 217-247.	2.4	118
100	Querying Clinical Workflows by Temporal Similarity. Lecture Notes in Computer Science, 2007, , 469-478.	1.0	8
101	Temporal Semistructured Data Models and Data Warehouses. , 2007, , 277-297.		3
102	GeoMTGM: A Graphical Data Model for Semistructured, Geographical, and Temporal Data. , 2007, , 15-41.		0
103	Temporal Constraints with Multiple Granularities in Smart Homes. Lecture Notes in Computer Science, 2006, , 35-56.	1.0	3
104	Task Scheduling for a TemporalWorkflow Management System. , 2006, , .		14
105	Representing trends and trend dependencies with multiple granularities. , 2006, , .		3
106	Guest editorial: Temporal representation and reasoning. Annals of Mathematics and Artificial Intelligence, 2006, 46, 231-234.	0.9	10
107	Temporal representation and reasoning in medicine. Artificial Intelligence in Medicine, 2006, 38, 97-100.	3.8	4
108	Temporal representation and reasoning in medicine: Research directions and challenges. Artificial Intelligence in Medicine, 2006, 38, 101-113.	3.8	68

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109	Conceptual modeling of XML data. , 2006, , .		14
110	A Portable Approach to Exception Handling in Workflow Management Systems. Lecture Notes in Computer Science, 2006, , 201-218.	1.0	2
111	Merging multimedia presentations and semistructured temporal data: a graph-based model and its application to clinical information. Artificial Intelligence in Medicine, 2005, 34, 89-112.	3.8	16
112	Evaluating Fuzzy Association Rules on XML Documents. , 2005, , 435-448.		4
113	Complex Association Rules for XML Documents. Lecture Notes in Computer Science, 2005, , 127-133.	1.0	1
114	Architectures for a temporal workflow management system. , 2004, , .		16
115	A Graph-Based Data Model to Represent Transaction Time in Semistructured Data. Lecture Notes in Computer Science, 2004, , 559-568.	1.0	6
116	Data mining on temporal data: a visual approach and its clinical application to hemodialysis. Journal of Visual Languages and Computing, 2003, 14, 591-620.	1.8	50
117	Visualizing queries on databases of temporal histories: new metaphors and their evaluation. Data and Knowledge Engineering, 2003, 44, 239-264.	2.1	40
118	Temporal Conceptual Modelling of Workflows. Lecture Notes in Computer Science, 2003, , 59-76.	1.0	25
119	Modeling Multimedia and Temporal Aspects of Semistructured Clinical Data. Lecture Notes in Computer Science, 2003, , 36-40.	1.0	0
120	User-oriented views in health care information systems. IEEE Transactions on Biomedical Engineering, 2002, 49, 1387-1398.	2.5	25
121	Title is missing!. Annals of Mathematics and Artificial Intelligence, 2002, 36, 81-119.	0.9	9
122	HMAPâ€“ A temporal data model managing intervals with different granularities and indeterminacy from natural language sentences. VLDB Journal, 2001, 9, 294-311.	2.7	24
123	Temporal Granularity: Completing the Puzzle. Journal of Intelligent Information Systems, 2001, 16, 41-63.	2.8	35
124	Visual Definition of Temporal Clinical Abstractions: A User Interface Based on Novel Metaphors. Lecture Notes in Computer Science, 2001, , 227-230.	1.0	6
125	TEODOLINDA. A communication architecture for hospital information systems. Computer Methods and Programs in Biomedicine, 2000, 62, 59-68.	2.6	2
126	Editors' Foreword: Intelligent Temporal Information Systems in Medicine. Journal of Intelligent Information Systems, 1999, 13, 5-8.	2.8	6

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127	Abstraction on clinical data sequences: an object-oriented data model and a query language based on the event calculus. Artificial Intelligence in Medicine, 1999, 17, 271-301.	3.8	36
128	Visualizing Temporal Clinical Data on the WWW. Lecture Notes in Computer Science, 1999, , 301-311.	1.0	10
129	Reasoning about Events with Imprecise Location and Multiple Granularities. Lecture Notes in Computer Science, 1999, , 1006-1017.	1.0	2
130	WWW-based access to object-oriented clinical databases: the KHOSPAD project. Computers in Biology and Medicine, 1998, 28, 531-552.	3.9	15
131	Temporal Indeterminacy in Deductive Databases: An Approach Based on Event Calculus. Lecture Notes in Computer Science, 1998, , 212-227.	1.0	1
132	Temporal reasoning and temporal data maintenance in medicine: Issues and challenges. Computers in Biology and Medicine, 1997, 27, 353-368.	3.9	92
133	Guest editors' introduction to the special issue on time-oriented systems in medicine. Computers in Biology and Medicine, 1997, 27, 349-351.	3.9	3
134	Angiocardiographic digital still images compressed via irreversible methods: concepts and experiments. International Journal of Medical Informatics, 1997, 46, 185-204.	1.6	0
135	ARCADIA: A System for the Integration of Angiocardiographic Data and Images by an Object-Oriented DBMS. Journal of Biomedical Informatics, 1995, 28, 5-23.	0.7	17
136	TIME-NESIS: A data model in managing time granularity of natural-language clinical information. Lecture Notes in Computer Science, 1995, , 397-398.	1.0	0
137	A database schema for public-domain medical software. Computers in Biology and Medicine, 1994, 24, 243-254.	3.9	1
138	Some experiments in compressing angiocardiographic images according to the Peano-Hilbert scan path. Computer Methods and Programs in Biomedicine, 1994, 43, 247-253.	2.6	1
139	Data compression applied to dynamic electrocardiography. Medical and Biological Engineering and Computing, 1989, 27, 33-40.	1.6	9
140	Conditional Simple Temporal Networks with Uncertainty and Resources. Journal of Artificial Intelligence Research, 0, 64, .	7.0	10