Wojtek Michalowski

List of Publications by Year
in descending order

82	1,016	430874	477307
papers	citations	18 h-index	29 g-index

83	83	83	721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Restructurable Representations of Negotiation. Management Science, 1991, 37, 1269-1290.	4.1	88
2	Mobile clinical support system for pediatric emergencies. Decision Support Systems, 2003, 36, 161-176.	5.9	68
3	Mitigation of adverse interactions in pairs of clinical practice guidelines using constraint logic programming. Journal of Biomedical Informatics, 2013, 46, 341-353.	4.3	58
4	Extending the MAD portfolio optimization model to incorporate downside risk aversion. Naval Research Logistics, 2001, 48, 185-200.	2.2	51
5	Representing the negotiation process with a rule-based formalism. Theory and Decision, 1988, 25, 225-257.	1.0	50
6	A Bi-Reference Procedure for Interactive Multiple Criteria Programming. Operations Research, 1992, 40, 247-258.	1.9	50
7	Comprehensive mitigation framework for concurrent application of multiple clinical practice guidelines. Journal of Biomedical Informatics, 2017, 66, 52-71.	4.3	44
8	Architectural frameworks: defining the structures for implementing learning health systems. Implementation Science, 2017, 12, 78.	6.9	43
9	Implementing an Integrative Multi-agent Clinical Decision Support System with Open Source Software. Journal of Medical Systems, 2012, 36, 123-137.	3.6	33
10	A Tree-Based Decision Model to Support Prediction of the Severity of Asthma Exacerbations in Children. Journal of Medical Systems, 2010, 34, 551-562.	3.6	30
11	A decision support system for home dialysis visit scheduling and nurse routing. Decision Support Systems, 2020, 130, 113224.	5.9	30
12	Incorporating wealth information into a multiple criteria decision making model. European Journal of Operational Research, 2003, 150, 204-219.	5.7	28
13	Predicting the need for CT imaging in children with minor head injury using an ensemble of Naive Bayes classifiers. Artificial Intelligence in Medicine, 2012, 54, 163-170.	6.5	25
14	Using attribute trade-off information in investment. Journal of Multi-Criteria Decision Analysis, 1999, 8, 189-199.	1.9	23
15	Ideating Mobile Health Behavioral Support for Compliance to Therapy for Patients with Chronic Disease: A Case Study of Atrial Fibrillation Management. Journal of Medical Systems, 2018, 42, 234.	3.6	23
16	Using data envelopment analysis for assessing the performance of pediatric emergency department physicians. Health Care Management Science, 2017, 20, 129-140.	2.6	21
17	Development of a Decision Algorithm to Support Emergency Triage of Scrotal Pain and its Implementation in the met system. Infor, 2005, 43, 287-301.	0.6	19
18	Prospective evaluation of the MET-AP system providing triage plans for acute pediatric abdominal pain. International Journal of Medical Informatics, 2008, 77, 208-218.	3.3	18

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19	Use Of Rough Sets Analysis To Classify Siberian Forest Ecosystems According To Net Primary Production Of Phytomass. Infor, 2000, 38, 145-160.	0.6	17
20	Using Semantic Components to Represent Dynamics of an Interdisciplinary Healthcare Team in a Multi-Agent Decision Support System. Journal of Medical Systems, 2016, 40, 42.	3.6	17
21	Using Constraint Logic Programming to Implement Iterative Actions and Numerical Measures during Mitigation of Concurrently Applied Clinical Practice Guidelines. Lecture Notes in Computer Science, 2013, , 17-22.	1.3	16
22	Searching for psychologically stable solutions of multiple criteria decision problems. European Journal of Operational Research, 1999, 118, 549-562.	5.7	15
23	Triage of the child with abdominal pain: A clinical algorithm for emergency patient management. Paediatrics and Child Health, 2001, 6, 23-28.	0.6	15
24	An analytic basis for decision support in negotiations. Naval Research Logistics, 1991, 38, 743-761.	2.2	14
25	Designing manâ€“machine interactions for mobile clinical systems: MET triage support using Palm handhelds. European Journal of Operational Research, 2007, 177, 1409-1417.	5.7	13
26	Identifying inconsistencies in multiple clinical practice guidelines for a patient with co-morbidity. , 2010, , .		13
27	Evaluation Of A Multiple Criteria Interactive Programming Approach: An Experiment. Infor, 1987, 25, 165-173.	0.6	12
28	Application of Preprocessing Methods to Imbalanced Clinical Data: An Experimental Study. Advances in Intelligent Systems and Computing, 2016, , 503-515.	0.6	11
29	An interactive procedure for learning about preferences: Case study of a portfolio manager. Journal of Multi-Criteria Decision Analysis, 1994, 3, 27-40.	1.9	10
30	Automated Pathologist Scheduling at The Ottawa Hospital. Interfaces, 2019, 49, 93-103.	1.5	10
31	MitPlan: A planning approach to mitigating concurrently applied clinical practice guidelines. Artificial Intelligence in Medicine, 2021, 112, 102002.	6.5	10
32	A real-time dashboard for managing pathology processes. Journal of Pathology Informatics, 2016, 7, 24.	1.7	10
33	A procedure for worst outcomes displacement in multiple criteria decision making. Computers and Operations Research, 1989, 16, 195-206.	4.0	9
34	Decision Making by Emergency Room Physicians and Residents. International Journal of Healthcare Information Systems and Informatics, 2009, 4, 17-35.	0.9	9
35	Rough Set Methodology in Clinical Practice: Controlled Hospital Trial of the MET System. Lecture Notes in Computer Science, 2004, , 805-814.	1.3	9
36	Reconciliation of concurrently applied clinical practice guidelines using Constraint Logic Programming. , 2011, , .		8

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37	An ontology-driven framework to support the dynamic formation of an interdisciplinary healthcare team. International Journal of Medical Informatics, 2020, 136, 104075.	3.3	7
38	Using First-Order Logic to Represent Clinical Practice Guidelines and to Mitigate Adverse Interactions. Lecture Notes in Computer Science, 2014, , 45-61.	1.3	7
39	Multi-class imbalanced semi-supervised learning from streams through online ensembles. , 2020, , .		7
40	Using a Bayesian belief network model to categorize length of stay for radical prostatectomy patients. Health Care Management Science, 2006, 9, 341-348.	2.6	6
41	Expanding usability analysis with intrinsic motivation concepts to learn about CDSS adoption: a case study. Health Policy and Technology, 2014, 3, 113-125.	2.5	6
42	A Health eLearning Ontology and Procedural Reasoning Approach for Developing Personalized Courses to Teach Patients about Their Medical Condition and Treatment. International Journal of Environmental Research and Public Health, 2021, 18, 7355.	2.6	6
43	Barriers and enablers to a physician-delivered educational initiative to reduce low-acuity visits to the pediatric emergency department. PLoS ONE, 2018, 13, e0198181.	2.5	5
44	A Hybrid Interactive Technique For The MCDM Problems. , 1997, , 48-59.		5
45	Performance evaluation of emergency department physicians using robust valueâ€based additive efficiency model. International Transactions in Operational Research, 2023, 30, 503-544.	2.7	5
46	Mining Clinical Data: Selecting Decision Support Algorithm for the MET-AP System. Lecture Notes in Computer Science, 2005, , 429-433.	1.3	4
47	MET4: Supporting Workflow Execution for Interdisciplinary Healthcare Teams. Lecture Notes in Business Information Processing, 2015, , 40-52.	1.0	4
48	A Constraint Logic Programming Approach to Identifying Inconsistencies in Clinical Practice Guidelines for Patients with Comorbidity. Lecture Notes in Computer Science, 2011, , 296-301.	1.3	4
49	Is There a Consensus when Physicians Evaluate the Relevance of Retrieved Systematic Reviews?. Methods of Information in Medicine, 2016, 55, 292-298.	1.2	3
50	MitPlan: A Planning Approach to Mitigating Concurrently Applied Clinical Practice Guidelines. Lecture Notes in Computer Science, 2019, , 93-103.	1.3	3
51	Negotiation Modelling and Support: Expanding the DSS Paradigm. , 1993, , 101-131.		3
52	MET system: a new approach to m-health in emergency triage. Studies in Health Technology and Informatics, 2004, 103, 101-8.	0.3	3
53	Aligning Interdisciplinary Healthcare Team Behavior with Workflow Execution: An Example of a Radical Prostatectomy Workflow. , 2016, , .		2
54	Supporting process execution by interdisciplinary healthcare teams: Middleware design for IBM BPM. Procedia Computer Science, 2017, 113, 376-383.	2.0	2

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55	Incorporating Laboratory Values Into a Machine Learning Model Improves In-Hospital Mortality Predictions After Rapid Response Team Call. , 2019, 1, e0023.		2
56	Engineering of a clinical decision support framework for the point of care use. AMIA ... Annual Symposium proceedings, 2008, , 814-8.	0.2	2
57	Supporting Decision Processes: An Approach and Two Examples. , 1990, , 606-636.		1
58	MOLP Formulation Assistance Using LP Infeasibility Analysis. Lecture Notes in Economics and Mathematical Systems, 1996, , 87-106.	0.3	1
59	A SPATIAL MODEL FOR ESTIMATING CUMULATIVE EFFECTS AT AQUACULTURE SITES. Aquaculture, Economics and Management, 2009, 13, 294-311.	4.2	1
60	MitPlan 2.0: Enhanced Support for Multi-morbid Patient Management Using Planning. Lecture Notes in Computer Science, 2021, , 276-286.	1.3	1
61	Using Secondary Knowledge to Support Decision Tree Classification of Retrospective Clinical Data. , 2007, , 238-251.		1
62	Developing a Decision Model for Asthma Exacerbations: Combining Rough Sets and Expert-Driven Selection of Clinical Attributes. Lecture Notes in Computer Science, 2006, , 428-437.	1.3	1
63	A Concept-Based Framework for Retrieving Evidence to Support Emergency Physician Decision Making at the Point of Care. , 2007, , 117-126.		1
64	Developing the Pathologists' Monthly Assignment Schedule: A Case Study at the Division of Anatomical Pathology of The Ottawa Hospital. AMIA ... Annual Symposium proceedings, 2015, 2015, 933-42.	0.2	1
65	Predictive Analytics to Support Real-Time Management in Pathology Facilities. AMIA ... Annual Symposium proceedings, 2016, 2016, 772-778.	0.2	1
66	Towards an AI Planning-Based Pipeline for the Management of Multimorbid Patients. Lecture Notes in Computer Science, 2022, , 14-23.	1.3	1
67	A Symbolic Approach to Computer-assisted Preference Elicitation. Human Systems Management, 1989, 8, 225-231.	1.1	0
68	Teaching medical diagnosis: a rule-based approach. Medical Teacher, 1993, 15, 309-319.	1.8	0
69	Representing clinical documents to support automatic retrieval of evidence from the Cochrane Library. , 2010, , .		0
70	ActCPG framework to learn about information user requirements of a clinical practice guideline. Health Policy and Technology, 2012, 1, 165-172.	2.5	0
71	Special section on behavioral considerations in developing and applying operations research models. Annals of Operations Research, 2013, 211, 491-492.	4.1	0
72	Business school teams up with clinical innovators: An opportunity for health system transformation. Healthcare Management Forum, 2019, 32, 218-223.	1.4	0

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73	Decision Making by Emergency Room Physicians and Residents. , 2011, , 131-148.		0
74	Discovering the Preferences of Physicians with Regards to Rank-Ordered Medical Documents. Communications in Computer and Information Science, 2012, , 142-150.	0.5	0
75	Sequential Decision Making and Restructurable Modelling. , 1992, , 149-158.		0
76	A Virtual Patient Navigation Application for Lung Cancer Assessment Patients. Lecture Notes in Business Information Processing, 2017, , 255-272.	1.0	0
77	Creating Mobile Self-Triage Applications: Requirements and Usability Perspectives. , 2021, , .		0
78	Evaluating emergency physicians: data envelopment analysis approach. AMIA ... Annual Symposium proceedings, 2013, 2013, 423-31.	0.2	0
79	Shared Decision-Making Ontology for a Healthcare Team Executing a Workflow, an Instantiation for Metastatic Spinal Cord Compression Management. AMIA ... Annual Symposium proceedings, 2018, 2018, 877-886.	0.2	0
80	A Framework for Modeling Workflow Execution by an Interdisciplinary Healthcare Team. Studies in Health Technology and Informatics, 2015, 216, 1100.	0.3	0
81	Towards a framework for comparing functionalities of multimorbidity clinical decision support: A literature-based feature set and benchmark cases.. AMIA ... Annual Symposium proceedings, 2021, 2021, 920-929.	0.2	0
82	A scoping review of complication prediction models in spinal surgery: An analysis of model development, validation and impact. North American Spine Society Journal (NASSJ), 2022, , 100142.	0.5	0