Mattias Ohlsson

List of Publications by Year
in descending order

88 papers	2,549 citations	159585 30 h-index	214800 47 g-index
93 all docs	93 docs citations	93 times ranked	3475 citing authors

#	Article	IF	Citations
1	The NILS Study Protocol: A Retrospective Validation Study of an Artificial Neural Network Based Preoperative Decision-Making Tool for Noninvasive Lymph Node Staging in Women with Primary Breast Cancer (ISRCTN14341750). Diagnostics, 2022, 12, 582.	2.6	7
2	Deterministic annealing with Potts neurons for multi-robot routing. Intelligent Service Robotics, 2022, 15, 321-334.	2.6	2
3	The implementation of a noninvasive lymph node staging (NILS) preoperative prediction model is cost effective in primary breast cancer. Breast Cancer Research and Treatment, 2022, 194, 577-586.	2.5	7
4	Automated Bone Scan Index as an Imaging Biomarker to Predict Overall Survival in the Zometa European Study/SPCG11. European Urology Oncology, 2021, 4, 49-55.	5.4	9
5	Machine learning compared with ruleâ€in/ruleâ€out algorithms and logistic regression to predict acute myocardial infarction based on troponin T concentrations. Journal of the American College of Emergency Physicians Open, 2021, 2, e12363.	0.7	3
6	Proteomic Data Analysis for Differential Profiling of the Autoimmune Diseases SLE, RA, SS, and ANCA-Associated Vasculitis. Journal of Proteome Research, 2021, 20, 1252-1260.	3.7	5
7	Improving Machine Learning 30-Day Mortality Prediction by Discounting Surprising Deaths. Journal of Emergency Medicine, 2021, , .	0.7	3
8	Predicting and elucidating the etiology of fatty liver disease: A machine learning modeling and validation study in the IMI DIRECT cohorts. PLoS Medicine, 2020, 17, e1003149.	8.4	47
9	Title is missing!. , 2020, 17, e1003149.		0
10	Title is missing!. , 2020, 17, e1003149.		0
11	Title is missing!. , 2020, 17, e1003149.		0
12	Title is missing!. , 2020, 17, e1003149.		0
13	Title is missing!. , 2020, 17, e1003149.		0
14	Artificial neural network models to predict nodal status in clinically node-negative breast cancer. BMC Cancer, 2019, 19, 610.	2.6	26
15	Establishing strong imputation performance of a denoising autoencoder in a wide range of missing data problems. Neurocomputing, 2019, 365, 137-146.	5.9	43
16	Improving prediction of heart transplantation outcome using deep learning techniques. Scientific Reports, 2018, 8, 3613.	3.3	49
17	3D skeletal uptake of 18F sodium fluoride in PET/CT images is associated with overall survival in patients with prostate cancer. EJNMMI Research, 2017, 7, 15.	2.5	33
18	Tumor tissue protein signatures reflect histological grade of breast cancer. PLoS ONE, 2017, 12, e0179775.	2.5	8

#	ARTICLE	IF	CITATIONS
19	Bone Scan Index as an Imaging Biomarker in Metastatic Castration-resistant Prostate Cancer: A Multicentre Study Based on Patients Treated with Abiraterone Acetate (Zytiga) in Clinical Practice. European Urology Focus, 2016, 2, 540-546.	3.1	27
20	Statistical power considerations in genotype-based recall randomized controlled trials. Scientific Reports, 2016, 6, 37307.	3.3	10
21	Technical Advances of the Recombinant Antibody Microarray Technology Platform for Clinical Immunoproteomics. PLoS ONE, 2016, 11, e0159138.	2.5	27
22	Bone Scan Index as an imaging biomarker to predict overall survival in the Zeus/SPCG11 study.. Journal of Clinical Oncology, 2016, 34, e16599-e16599.	1.6	0
23	Analysis of the Influence of HLA-A Matching Relative to HLA-B and -DR Matching on Heart Transplant Outcomes. Transplantation Direct, 2015, 1, e38.	1.6	6
24	Single-Cell Network Analysis Identifies DDIT3 as a Nodal Lineage Regulator in Hematopoiesis. Cell Reports, 2015, 11, 1503-1510.	6.4	70
25	ABO-Identical Blood Group Matching Has No Survival Benefit for AB Heart Transplant Recipients. Annals of Thoracic Surgery, 2015, 99, 762-768.	1.3	7
26	The International Heart Transplant Survival Algorithm (IHTSA): A New Model to Improve Organ Sharing and Survival. PLoS ONE, 2015, 10, e0118644.	2.5	61
27	Finding Risk Groups by Optimizing Artificial Neural Networks on the Area under the Survival Curve Using Genetic Algorithms. PLoS ONE, 2015, 10, e0137597.	2.5	5
28	Bone scan index as a biomarker to predict outcome in real-life mCRPC patients on abiraterone acetate: A multicenter study.. Journal of Clinical Oncology, 2015, 33, 217-217.	1.6	0
29	Bone Scan Index as a prognostic imaging biomarker during androgen deprivation therapy. EJNMMI Research, 2014, 4, 58.	2.5	28
30	Analysis of regional bone scan index measurements for the survival of patients with prostate cancer. BMC Medical Imaging, 2014, 14, 24.	2.7	11
31	Identification of B-cell lymphoma subsets by plasma protein profiling using recombinant antibody microarrays. Leukemia Research, 2014, 38, 682-690.	0.8	14
32	Bone Scan Index: a prognostic imaging biomarker for high-risk prostate cancer patients receiving primary hormonal therapy. EJNMMI Research, 2013, 3, 9.	2.5	46
33	CODUSA - Customize Optimal Donor Using Simulated Annealing In Heart Transplantation. Scientific Reports, 2013, 3, 1922.	3.3	4
34	Progression of bone metastases in patients with prostate cancer - automated detection of new lesions and calculation of bone scan index. EJNMMI Research, 2013, 3, 64.	2.5	41
35	Prognosis of patients without perfusion defects with and without rest study in myocardial perfusion scintigraphy. EJNMMI Research, 2013, 3, 58.	2.5	12
36	Training artificial neural networks directly on the concordance index for censored data using genetic algorithms. Artificial Intelligence in Medicine, 2013, 58, 125-132.	6.5	23

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37	Transcriptional Regulation of Lineage Commitment - A Stochastic Model of Cell Fate Decisions. PLoS Computational Biology, 2013, 9, e1003197.	3.2	47
38	Cerebrospinal Fluid Levels of Heart Fatty Acid Binding Protein are Elevated Prodromally in Alzheimer's Disease and Vascular Dementia. Journal of Alzheimer's Disease, 2013, 34, 673-679.	2.6	37
39	Risk predictions for individual patients from logistic regression were visualized with barâ€"line charts. Journal of Clinical Epidemiology, 2012, 65, 335-342.	5.0	5
40	Likelihood of acute coronary syndrome in emergency department chest pain patients varies with time of presentation. BMC Research Notes, 2012, 5, 420.	1.4	23
41	Referring physicians underestimate the extent of abnormalities in final reports from myocardial perfusion imaging. EJNMMI Research, 2012, 2, 27.	2.5	6
42	Evaluation of a Previously Suggested Plasma Biomarker Panel to Identify Alzheimer's Disease. PLoS ONE, 2012, 7, e29868.	2.5	106
43	A Novel Automated Platform for Quantifying the Extent of Skeletal Tumour Involvement in Prostate Cancer Patients Using the Bone Scan Index. European Urology, 2012, 62, 78-84.	1.9	158
44	An artificial neural network to safely reduce the number of ambulance ECGs transmitted for physician assessment in a system with prehospital detection of ST elevation myocardial infarction. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2012, 20, 8.	2.6	14
45	Prediction of Severe Acute Pancreatitis at Admission to Hospital Using Artificial Neural Networks. Pancreatology, 2011, 11, 328-335.	1.1	61
46	Clinical data do not improve artificial neural network interpretation of myocardial perfusion scintigraphy. Clinical Physiology and Functional Imaging, 2011, 31, 240-245.	1.2	1
47	Diagnostic evaluation of three cardiac software packages using a consecutive group of patients. EJNMMI Research, 2011, 1, 22.	2.5	13
48	Molecular serum portraits in patients with primary breast cancer predict the development of distant metastases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14252-14257.	7.1	68
49	Genetic profiles of gastroesophageal cancer: combined analysis using expression array and tiling arrayâ€"comparative genomic hybridization. Cancer Genetics and Cytogenetics, 2010, 200, 120-126.	1.0	26
50	Automated decision support for bone scintigraphy. , 2009, , .		4
51	In search of the best method to predict acute coronary syndrome using only the electrocardiogram from the emergency department. Journal of Electrocardiology, 2009, 42, 58-63.	0.9	37
52	Exploring new possibilities for case-based explanation of artificial neural network ensembles. Neural Networks, 2009, 22, 75-81.	5.9	26
53	Evaluation of a decision support system for interpretation of myocardial perfusion gated SPECT. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 1523-1529.	6.4	19
54	Computer-Assisted Interpretation of Planar Whole-Body Bone Scans. Journal of Nuclear Medicine, 2008, 49, 1958-1965.	5.0	101

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55	Automated interpretation of PET/CT images in patients with lung cancer. Nuclear Medicine Communications, 2007, 28, 79-84.	1.1	12
56	Best leads in the standard electrocardiogram for the emergency detection of acute coronary syndrome. Journal of Electrocardiology, 2007, 40, 251-256.	0.9	18
57	Gene expression profilers and conventional clinical markers to predict distant recurrences for premenopausal breast cancer patients after adjuvant chemotherapy. European Journal of Cancer, 2006, 42, 2729-2737.	2.8	23
58	A new computer-based decision-support system for the interpretation of bone scans. Nuclear Medicine Communications, 2006, 27, 417-423.	1.1	63
59	Patient gender and radiopharmaceutical tracer is of minor importance for the interpretation of myocardial perfusion images using an artificial neural network. Clinical Physiology and Functional Imaging, 2006, 26, 146-150.	1.2	1
60	Decision support for the initial triage of patients with acute coronary syndromes. Clinical Physiology and Functional Imaging, 2006, 26, 151-156.	1.2	18
61	The added value of ECG-gating for the diagnosis of myocardial infarction using myocardial perfusion scintigraphy and artificial neural networks. Clinical Physiology and Functional Imaging, 2006, 26, 301-304.	1.2	8
62	Comparison between neural networks and multiple logistic regression to predict acute coronary syndrome in the emergency room. Artificial Intelligence in Medicine, 2006, 38, 305-318.	6.5	101
63	Risk factor identification and mortality prediction in cardiac surgery using artificial neural networks. Journal of Thoracic and Cardiovascular Surgery, 2006, 132, 12-19.e1.	0.8	91
64	A simple statistical model for prediction of acute coronary syndrome in chest pain patients in the emergency department. BMC Medical Informatics and Decision Making, 2006, 6, 28.	3.0	32
65	Interpretation of captopril renography using artificial neural networks. Clinical Physiology and Functional Imaging, 2005, 25, 293-296.	1.2	6
66	Toward personal eHealth in cardiology. Results from the EPI-MEDICS telemedicine project. Journal of Electrocardiology, 2005, 38, 100-106.	0.9	100
67	Regional Cerebral Blood Flow in Alzheimerâ€™s Disease: Classification and Analysis of Heterogeneity. Dementia and Geriatric Cognitive Disorders, 2004, 17, 207-214.	1.5	25
68	WeAidUâ€"a decision support system for myocardial perfusion images using artificial neural networks. Artificial Intelligence in Medicine, 2004, 30, 49-60.	6.5	48
69	Detecting acute myocardial infarction in the 12-lead ECG using Hermite expansions and neural networks. Artificial Intelligence in Medicine, 2004, 32, 127-136.	6.5	81
70	New paradigms in telemedicine: ambient intelligence, wearable, pervasive and personalized. Studies in Health Technology and Informatics, 2004, 108, 123-32.	0.3	16
71	Role of ventilation scintigraphy in diagnosis of acute pulmonary embolism: an evaluation using artificial neural networks. European Journal of Nuclear Medicine and Molecular Imaging, 2003, 30, 961-965.	6.4	10
72	Matching protein structures with fuzzy alignments. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11936-11940.	7.1	29

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73	A novel approach to local reliability of sequence alignments. Bioinformatics, 2002, 18, 847-854.	4.1	31
74	Neural networks - a diagnostic tool in acute myocardial infarction with concomitant left bundle branch block. Clinical Physiology and Functional Imaging, 2002, 22, 295-299.	1.2	16
75	Value of exercise data for the interpretation of myocardial perfusion SPECT. Journal of Nuclear Cardiology, 2002, 9, 169-173.	2.1	4
76	An independent evaluation of a new method for automated interpretation of lung scintigrams using artificial neural networks. European Journal of Nuclear Medicine and Molecular Imaging, 2001, 28, 33-38.	2.1	13
77	An efficient mean field approach to the set covering problem. European Journal of Operational Research, 2001, 133, 583-595.	5.7	28
78	Usefulness of serial electrocardiograms for diagnosis of acute myocardial infarction. American Journal of Cardiology, 2001, 88, 478-481.	1.6	34
79	Acute Myocardial Infarction: Analysis of the ECG Using Artificial Neural Networks. Perspectives in Neural Computing, 2000, , 209-214.	0.1	3
80	A confident decision support system for interpreting electrocardiograms. Clinical Physiology, 1999, 19, 410-418.	0.7	43
81	A Study of the Mean Field Approach to Knapsack Problems. Neural Networks, 1997, 10, 263-271.	5.9	18
82	Agreement Between Artificial Neural Networks and Experienced Electrocardiographer on Electrocardiographic Diagnosis of Healed Myocardial Infarction11This study was supported by grants from the Swedish Medical Research Council (B95-14X-09893-04B), Stockholm; Swedish National Board for Industrial and Technical Development, Stockholm; the Faculty of Medicine at Lund University, Lund, Sweden; the GÃ¶ran Gustafsson Foundation for Research in National Science and Medicine, Stockholm; and the Swedish Natural Scienc. Journal of the American College of Cardiology, 1996, 28, 1	2.8	33
83	Detection of frequently overlooked electrocardiographic lead reversals using artificial neural networks. American Journal of Cardiology, 1996, 78, 600-604.	1.6	51
84	Artificial neural networks for recognition of electrocardiographic lead reversal. American Journal of Cardiology, 1995, 75, 929-933.	1.6	51
85	Extensions and explorations of the elastic arms algorithm. Computer Physics Communications, 1993, 77, 19-32.	7.5	18
86	Neural Networks for Optimization Problems with Inequality Constraints: The Knapsack Problem. Neural Computation, 1993, 5, 331-339.	2.2	75
87	Track finding with deformable templates â€” the elastic arms approach. Computer Physics Communications, 1992, 71, 77-98.	7.5	63
88	A Deformable Templates Approach for Track Finding. , 1992, , 1197-1200.		0