Saeid Nahavandi

List of Publications by Citations

370 papers	8,694 citations	47 h-index	75 g-index
409 ext. papers	12,112 ext. citations	4.8 avg, IF	7.07 L-index

#	Paper	IF	Citations
370	Lower upper bound estimation method for construction of neural network-based prediction intervals. *IEEE Transactions on Neural Networks*, **2011**, 22, 337-46		350
369	Comprehensive review of neural network-based prediction intervals and new advances. *IEEE Transactions on Neural Networks*, **2011**, 22, 1341-56		300
368	Dielectrophoretic platforms for bio-microfluidic systems. *Biosensors and Bioelectronics*, **2011**, 26, 1800-14	11.8	266
367	Industry 5.0 A Human-Centric Solution. *Sustainability*, **2019**, 11, 4371	3.6	213
366	A review of uncertainty quantification in deep learning: Techniques, applications and challenges. *Information Fusion*, **2021**, 76, 243-297	16.7	174
365	Prediction Intervals for Short-Term Wind Farm Power Generation Forecasts. *IEEE Transactions on Sustainable Energy*, **2013**, 4, 602-610	8.2	167
364	Deep Reinforcement Learning for Multiagent Systems: A Review of Challenges, Solutions, and Applications. *IEEE Transactions on Cybernetics*, **2020**, 50, 3826-3839	10.2	165
363	Synchronization of an Inertial Neural Network With Time-Varying Delays and Its Application to Secure Communication. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 195-207	10.3	157
362	Construction of Optimal Prediction Intervals for Load Forecasting Problems. *IEEE Transactions on Power Systems*, **2010**, 25, 1496-1503	7	156
361	Characterization of conducting polymer coated synthetic fabrics for heat generation. *Synthetic Metals*, **2004**, 144, 21-28	3.6	135
360	Interval Type-2 Fuzzy Logic Systems for Load Forecasting: A Comparative Study. *IEEE Transactions on Power Systems*, **2012**, 27, 1274-1282	7	131
359	Prediction Intervals to Account for Uncertainties in Travel Time Prediction. *IEEE Transactions on Intelligent Transportation Systems*, **2011**, 12, 537-547	6.1	112
358	Microfluidic platforms for biomarker analysis. *Lab on A Chip*, **2014**, 14, 1496-514	7.2	96
357	Electromagnetic interference shielding and radiation absorption in thin polypyrrole films. *European Polymer Journal*, **2007**, 43, 205-213	5.2	93
356	Classification of healthcare data using genetic fuzzy logic system and wavelets. *Expert Systems With Applications*, **2015**, 42, 2184-2197	7.8	89
355	Bag-of-words representation for biomedical time series classification. *Biomedical Signal Processing and Control*, **2013**, 8, 634-644	4.9	87
354	Condition monitoring of induction motors: A review and an application of an ensemble of hybrid intelligent models. *Expert Systems With Applications*, **2014**, 41, 4891-4903	7.8	86

353	Prediction Interval Construction and Optimization for Adaptive Neurofuzzy Inference Systems. *IEEE Transactions on Fuzzy Systems*, **2011**, 19, 983-988	8.3	84
352	Load Forecasting Using Interval Type-2 Fuzzy Logic Systems: Optimal Type Reduction. *IEEE Transactions on Industrial Informatics*, **2014**, 10, 1055-1063	11.9	81
351	Combined Nonparametric Prediction Intervals for Wind Power Generation. *IEEE Transactions on Sustainable Energy*, **2013**, 4, 849-856	8.2	80
350	Neural Network-Based Uncertainty Quantification: A Survey of Methodologies and Applications. *IEEE Access*, **2018**, 6, 36218-36234	3.5	76
349	Optimal H infinity insulin injection control for blood glucose regulation in diabetic patients. *IEEE Transactions on Biomedical Engineering*, **2005**, 52, 1625-31	5	76
348	Quantifying uncertainties of neural network-based electricity price forecasts. *Applied Energy*, **2013**, 112, 120-129	10.7	73
347	Coordinated energy management of vehicle air conditioning system. *Applied Thermal Engineering*, **2011**, 31, 750-764	5.8	72
346	A prediction interval-based approach to determine optimal structures of neural network metamodels. *Expert Systems With Applications*, **2010**, 37, 2377-2387	7.8	72
345	Medical image analysis using wavelet transform and deep belief networks. *Expert Systems With Applications*, **2017**, 86, 190-198	7.8	70
344	Medical data classification using interval type-2 fuzzy logic system and wavelets. *Applied Soft Computing Journal*, **2015**, 30, 812-822	7.5	68
343	Coronary artery disease detection using computational intelligence methods. *Knowledge-Based Systems*, **2016**, 109, 187-197	7.3	68
342	An expert system for selecting wart treatment method. *Computers in Biology and Medicine*, **2017**, 81, 167-175	7	67
341	Machine learning-based coronary artery disease diagnosis: A comprehensive review. *Computers in Biology and Medicine*, **2019**, 111, 103346	7	66
340	A genetic algorithm-based method for improving quality of travel time prediction intervals. *Transportation Research Part C: Emerging Technologies*, **2011**, 19, 1364-1376	8.4	66
339	A sequential search-space shrinking using CNN transfer learning and a Radon projection pool for medical image retrieval. *Expert Systems With Applications*, **2018**, 100, 224-233	7.8	64
338	Two-mode overconstrained three-DOFs rotational-translational linear-motor-based parallel-kinematics mechanism for machine tool applications. *Robotica*, **2007**, 25, 461-466	2.1	60
337	Epileptic Seizures Detection Using Deep Learning Techniques: A Review. *International Journal of Environmental Research and Public Health*, **2021**, 18,	4.6	59
336	A neural network-GARCH-based method for construction of Prediction Intervals. *Electric Power Systems Research*, **2013**, 96, 185-193	3.5	56

335	Human Identification From ECG Signals Via Sparse Representation of Local Segments. *IEEE Signal Processing Letters*, **2013**, 20, 937-940	3.2	56
334	EEG signal classification for BCI applications by wavelets and interval type-2 fuzzy logic systems. *Expert Systems With Applications*, **2015**, 42, 4370-4380	7.8	56
333	Dielectrophoretic manipulation and separation of microparticles using curved microelectrodes. *Electrophoresis*, **2009**, 30, 3707-17	3.6	56
332	Non-invasive detection of coronary artery disease in high-risk patients based on the stenosis prediction of separate coronary arteries. *Computer Methods and Programs in Biomedicine*, **2018**, 162, 119-127	6.9	56
331	Recent Advances on Singlemodal and Multimodal Face Recognition: A Survey. *IEEE Transactions on Human-Machine Systems*, **2014**, 44, 701-716	4.1	54
330	Adaptive cruise control look-ahead system for energy management of vehicles. *Expert Systems With Applications*, **2012**, 39, 3874-3885	7.8	53
329	Dynamic analysis of drug-induced cytotoxicity using chip-based dielectrophoretic cell immobilization technology. *Analytical Chemistry*, **2011**, 83, 2133-44	7.8	52
328	A new PSO-based approach to fire flame detection using K-Medoids clustering. *Expert Systems With Applications*, **2017**, 68, 69-80	7.8	51
327	Neuroscience goes on a chip. *Biosensors and Bioelectronics*, **2012**, 35, 1-13	11.8	51
326	System Design Perspective for Human-Level Agents Using Deep Reinforcement Learning: A Survey. *IEEE Access*, **2017**, 5, 27091-27102	3.5	49
325	Kinematic and dynamic modelling of UR5 manipulator **2016**,		49
324	Extreme learning machine based transfer learning algorithms: A survey. *Neurocomputing*, **2017**, 267, 516-524	5.4	48
323	Effectiveness of evolutionary algorithms for optimization of heat exchangers. *Energy Conversion and Management*, **2015**, 89, 281-288	10.6	44
322	Dielectrophoretic-activated cell sorter based on curved microelectrodes. *Microfluidics and Nanofluidics*, **2010**, 9, 411-426	2.8	44
321	Improving the Quality of Prediction Intervals Through Optimal Aggregation. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 4420-4429	8.9	43
320	On-chip separation of Lactobacillus bacteria from yeasts using dielectrophoresis. *Microfluidics and Nanofluidics*, **2012**, 12, 597-606	2.8	42
319	Intelligent energy management control of vehicle air conditioning via look-ahead system. *Applied Thermal Engineering*, **2011**, 31, 3147-3160	5.8	41
318	Optimisation of nonlinear motion cueing algorithm based on genetic algorithm. *Vehicle System Dynamics*, **2015**, 53, 526-545	2.8	40

317	A Review of Situation Awareness Assessment Approaches in Aviation Environments. *IEEE Systems Journal*, **2019**, 13, 3590-3603	4.3	40
316	Control Methods for Internet-Based Teleoperation Systems: A Review. *IEEE Transactions on Human-Machine Systems*, **2019**, 49, 32-46	4.1	40
315	Risk factors prediction, clinical outcomes, and mortality in COVID-19 patients. *Journal of Medical Virology*, **2021**, 93, 2307-2320	19.7	40
314	Fusion of convolution neural network, support vector machine and Sobel filter for accurate detection of COVID-19 patients using X-ray images. *Biomedical Signal Processing and Control*, **2021**, 68, 102622	4.9	40
313	Constructing Optimal Prediction Intervals by Using Neural Networks and Bootstrap Method. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 1810-5	10.3	39
312	Parallel deep solutions for image retrieval from imbalanced medical imaging archives. *Applied Soft Computing Journal*, **2018**, 63, 197-205	7.5	39
311	Applications of deep learning techniques for automated multiple sclerosis detection using magnetic resonance imaging: A review. *Computers in Biology and Medicine*, **2021**, 136, 104697	7	38
310	A Novel Evolutionary-Based Deep Convolutional Neural Network Model for Intelligent Load Forecasting. *IEEE Transactions on Industrial Informatics*, **2021**, 17, 8243-8253	11.9	37
309	Multiobjective and Interactive Genetic Algorithms for Weight Tuning of a Model Predictive Control-Based Motion Cueing Algorithm. *IEEE Transactions on Cybernetics*, **2019**, 49, 3471-3481	10.2	35
308	Driving behavior classification based on sensor data fusion using LSTM recurrent neural networks **2017**,		35
307	A comprehensive comparison of handcrafted features and convolutional autoencoders for epileptic seizures detection in EEG signals. *Expert Systems With Applications*, **2021**, 163, 113788	7.8	35
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305	Microfluidic platforms for the investigation of intercellular signalling mechanisms. *Small*, **2014**, 10, 4810-26		34
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296	Incorporating Human Perception With the Motion Washout Filter Using Fuzzy Logic Control. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 3276-3284	5.5	31
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291	An Analytical Loading Model for n -Tendon Continuum Robots. *IEEE Transactions on Robotics*, **2018**, 34, 1215-1225	6.5	29
290	Robust Adaptive Control Scheme for Teleoperation Systems With Delay and Uncertainties. *IEEE Transactions on Cybernetics*, **2020**, 50, 3243-3253	10.2	29
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288	Uncertainty quantification in skin cancer classification using three-way decision-based Bayesian deep learning. *Computers in Biology and Medicine*, **2021**, 135, 104418	7	29
287	Dynamic analysis of Hexarot: axis-symmetric parallel manipulator. *Robotica*, **2018**, 36, 225-240	2.1	28
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281	Semicircular canal modeling in human perception. *Reviews in the Neurosciences*, **2017**, 28, 537-549	4.7	26
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254	A genetic algorithm-based nonlinear scaling method for optimal motion cueing algorithm in driving simulator. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2018**, 232, 1025-1038	1	20
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250	Spike sorting using locality preserving projection with gap statistics and landmark-based spectral clustering. *Journal of Neuroscience Methods*, **2014**, 238, 43-53	3	19
249	Short term load forecasting using Interval Type-2 Fuzzy Logic Systems **2011**,		19
248	Trapping and imaging of micron-sized embryos using dielectrophoresis. *Electrophoresis*, **2011**, 32, 3129-3326		19
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