Sungzoon Cho

List of Publications by Year
in descending order

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97 papers	2,753 citations	159358 30 h-index	205818 48 g-index
98 all docs	98 docs citations	98 times ranked	2016 citing authors

#	Article	IF	Citations
1	Web-Based Keystroke Dynamics Identity Verification Using Neural Network. Journal of Organizational Computing and Electronic Commerce, 2000, 10, 295-307.	1.0	148
2	Bag-of-concepts: Comprehending document representation through clustering words in distributed representation. Neurocomputing, 2017, 266, 336-352.	3.5	122
3	Keystroke dynamics identity verificationâ€"its problems and practical solutions. Computers and Security, 2004, 23, 428-440.	4.0	116
4	Virtual metrology for run-to-run control in semiconductor manufacturing. Expert Systems With Applications, 2011, 38, 2508-2522.	4.4	93
5	A virtual metrology system for semiconductor manufacturing. Expert Systems With Applications, 2009, 36, 12554-12561.	4.4	92
6	Machine learning-based novelty detection for faulty wafer detection in semiconductor manufacturing. Expert Systems With Applications, 2012, 39, 4075-4083.	4.4	92
7	Keystroke dynamics-based authentication for mobile devices. Computers and Security, 2009, 28, 85-93.	4.0	89
8	Neighborhood Propertyâ€"Based Pattern Selection for Support Vector Machines. Neural Computation, 2007, 19, 816-855.	1.3	77
9	Semi-supervised support vector regression based on self-training with label uncertainty: An application to virtual metrology in semiconductor manufacturing. Expert Systems With Applications, 2016, 51, 85-106.	4.4	77
10	Keystroke dynamics-based user authentication using long and free text strings from various input devices. Information Sciences, 2015, 308, 72-93.	4.0	76
11	Response models based on bagging neural networks. Journal of Interactive Marketing, 2005, 19, 17-30.	4.3	73
12	Response modeling with support vector machines. Expert Systems With Applications, 2006, 30, 746-760.	4.4	65
13	Locally linear reconstruction for instance-based learning. Pattern Recognition, 2008, 41, 3507-3518.	5.1	62
14	Fault Detection and Diagnosis Using Self-Attentive Convolutional Neural Networks for Variable-Length Sensor Data in Semiconductor Manufacturing. IEEE Transactions on Semiconductor Manufacturing, 2019, 32, 302-309.	1.4	60
15	Constructing a multi-class classifier using one-against-one approach with different binary classifiers. Neurocomputing, 2015, 149, 677-682.	3.5	59
16	Continual Retraining of Keystroke Dynamics Based Authenticator. Lecture Notes in Computer Science, 2007, , 1203-1211.	1.0	56
17	Approximating support vector machine with artificial neural network for fast prediction. Expert Systems With Applications, 2014, 41, 4989-4995.	4.4	45
18	Multi-class classification via heterogeneous ensemble of one-class classifiers. Engineering Applications of Artificial Intelligence, 2015, 43, 35-43.	4.3	44

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19	Multiple permeability predictions using an observational learning algorithm. Computers and Geosciences, 2000, 26, 907-913.	2.0	41
20	Retraining a keystroke dynamics-based authenticator with impostor patterns. Computers and Security, 2007, 26, 300-310.	4.0	41
21	An efficient and effective ensemble of support vector machines for anti-diabetic drug failure prediction. Expert Systems With Applications, 2015, 42, 4265-4273.	4.4	41
22	Using Wafer Map Features to Better Predict Die-Level Failures in Final Test. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 431-437.	1.4	39
23	Improving authentication accuracy using artificial rhythms and cues for keystroke dynamics-based authentication. Expert Systems With Applications, 2009, 36, 10649-10656.	4.4	37
24	Mining transportation logs for understanding the after-assembly block manufacturing process in the shipbuilding industry. Expert Systems With Applications, 2013, 40, 83-95.	4.4	37
25	Machine learning-based anomaly detection via integration of manufacturing, inspection and after-sales service data. Industrial Management and Data Systems, 2017, 117, 927-945.	2.2	37
26	Active Learning of Convolutional Neural Network for Cost-Effective Wafer Map Pattern Classification. IEEE Transactions on Semiconductor Manufacturing, 2020, 33, 258-266.	1.4	37
27	Response modeling with support vector regression. Expert Systems With Applications, 2008, 34, 1102-1108.	4.4	36
28	Invariance of neighborhood relation under input space to feature space mapping. Pattern Recognition Letters, 2005, 26, 707-718.	2.6	34
29	Ensemble based on GA wrapper feature selection. Computers and Industrial Engineering, 2006, 51, 111-116.	3.4	34
30	Probabilistic local reconstruction for k-NN regression and its application to virtual metrology in semiconductor manufacturing. Neurocomputing, 2014, 131, 427-439.	3.5	33
31	Virtual sample generation using a population of networks. Neural Processing Letters, 1997, 5, 21-27.	2.0	32
32	Improving spherical k-means for document clustering: Fast initialization, sparse centroid projection, and efficient cluster labeling. Expert Systems With Applications, 2020, 150, 113288.	4.4	32
33	Efficient Feature Selection-Based on Random Forward Search for Virtual Metrology Modeling. IEEE Transactions on Semiconductor Manufacturing, 2016, 29, 391-398.	1.4	31
34	Mining the relationship between production and customer service data for failure analysis of industrial products. Computers and Industrial Engineering, 2017, 106, 137-146.	3.4	31
35	Novelty Detection Approach for Keystroke Dynamics Identity Verification. Lecture Notes in Computer Science, 2003, , 1016-1023.	1.0	28
36	A hybrid novelty score and its use in keystroke dynamics-based user authentication. Pattern Recognition, 2009, 42, 3115-3127.	5.1	26

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37	The Novelty Detection Approach for Different Degrees of Class Imbalance. Lecture Notes in Computer Science, 2006, , 21-30.	1.0	25
38	Improvement of keystroke data quality through artificial rhythms and cues. Computers and Security, 2008, 27, 3-11.	4.0	24
39	Fast Pattern Selection for Support Vector Classifiers. Lecture Notes in Computer Science, 2003, , 376-387.	1.0	24
40	Application of LVQ to novelty detection using outlier training data. Pattern Recognition Letters, 2006, 27, 1572-1579.	2.6	22
41	Artificial Rhythms and Cues for Keystroke Dynamics Based Authentication. Lecture Notes in Computer Science, 2005, , 626-632.	1.0	22
42	Smartphone user segmentation based on app usage sequence with neural networks. Telematics and Informatics, 2018, 35, 329-339.	3.5	21
43	Semi-Supervised Response Modeling. Journal of Interactive Marketing, 2010, 24, 42-54.	4.3	20
44	Improved response modeling based on clustering, under-sampling, and ensemble. Expert Systems With Applications, 2012, 39, 6738-6753.	4.4	20
45	Focusing on non-respondents: Response modeling with novelty detectors. Expert Systems With Applications, 2007, 33, 522-530.	4.4	19
46	Product failure prediction with missing data. International Journal of Production Research, 2018, 56, 4849-4859.	4.9	19
47	GA SVM Wrapper Ensemble for Keystroke Dynamics Authentication. Lecture Notes in Computer Science, 2005, , 654-660.	1.0	19
48	Multiple disorder diagnosis with adaptive competitive neural networks. Artificial Intelligence in Medicine, 1993, 5, 469-487.	3.8	18
49	Virtual metrology for copper-clad laminate manufacturing. Computers and Industrial Engineering, 2017, 109, 280-287.	3.4	18
50	Observational Learning Algorithm for an Ensemble of Neural Networks. Pattern Analysis and Applications, 2002, 5, 154-167.	3.1	16
51	Knowledge extraction and visualization of digital design process. Expert Systems With Applications, 2018, 92, 206-215.	4.4	16
52	Data based segmentation and summarization for sensor data in semiconductor manufacturing. Expert Systems With Applications, 2014, 41, 2619-2629.	4.4	15
53	K-Means Clustering Seeds Initialization Based on Centrality, Sparsity, and Isotropy. Lecture Notes in Computer Science, 2009, , 109-117.	1.0	15
54	MAP FORMATION IN PROPRIOCEPTIVE CORTEX. International Journal of Neural Systems, 1994, 05, 87-101.	3.2	13

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55	Supporting diagnosis of attention-deficit hyperactive disorder with novelty detection. Artificial Intelligence in Medicine, 2008, 42, 199-212.	3.8	13
56	Active cluster annotation for wafer map pattern classification in semiconductor manufacturing. Expert Systems With Applications, 2021, 183, 115429.	4.4	13
57	Learning Competition and Cooperation. Neural Computation, 1993, 5, 242-259.	1.3	12
58	SOM-Based Novelty Detection Using Novel Data. Lecture Notes in Computer Science, 2005, , 359-366.	1.0	12
59	Optimal construction of one-against-one classifier based on meta-learning. Neurocomputing, 2015, 167, 459-466.	3.5	12
60	Multivariate Control Charts Based on Hybrid Novelty Scores. Communications in Statistics Part B: Simulation and Computation, 2014, 43, 115-131.	0.6	11
61	Improvement of virtual metrology performance by removing metrology noises in a training dataset. Pattern Analysis and Applications, 2015, 18, 173-189.	3.1	11
62	Adaptive fault detection framework for recipe transition in semiconductor manufacturing. Computers and Industrial Engineering, 2021, 161, 107632.	3.4	11
63	Pattern selection for support vector regression based response modeling. Expert Systems With Applications, 2012, 39, 8975-8985.	4.4	9
64	Extraction of Product Evaluation Factors with a Convolutional Neural Network and Transfer Learning. Neural Processing Letters, 2019, 50, 149-164.	2.0	9
65	Expected marginâ€“based pattern selection for support vector machines. Expert Systems With Applications, 2020, 139, 112865.	4.4	9
66	Evolution of neural network training set through addition of virtual samples. , 0, , .		8
67	Account-Sharing Detection Through Keystroke Dynamics Analysis. International Journal of Electronic Commerce, 2009, 14, 109-126.	1.4	8
68	Knowledge discovery in inspection reports of marine structures. Expert Systems With Applications, 2014, 41, 1153-1167.	4.4	8
69	Reliable prediction of anti-diabetic drug failure using a reject option. Pattern Analysis and Applications, 2017, 20, 883-891.	3.1	8
70	Determining user needs through abnormality detection and heterogeneous embedding of usage sequence. Electronic Commerce Research, 2021, 21, 245-261.	3.0	8
71	Improving Authentication Accuracy of Unfamiliar Passwords with Pauses and Cues for Keystroke Dynamics-Based Authentication. Lecture Notes in Computer Science, 2006, , 73-78.	1.0	8
72	Fast Pattern Selection Algorithm for Support Vector Classifiers: Time Complexity Analysis. Lecture Notes in Computer Science, 2003, , 1008-1015.	1.0	8

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73	Evaluating the reliability level of virtual metrology results for flexible process control: a novelty detection-based approach. Pattern Analysis and Applications, 2014, 17, 863-881.	3.1	7
74	Applying convolution filter to matrix of word-clustering based document representation. Neurocomputing, 2018, 315, 210-220.	3.5	7
75	A novel multi-class classification algorithm based on one-class support vector machine. Intelligent Data Analysis, 2015, 19, 713-725.	0.4	6
76	Document representation based on probabilistic word clustering in customer-voice classification. Pattern Analysis and Applications, 2019, 22, 221-232.	3.1	6
77	Extraction and prioritization of product attributes using an explainable neural network. Pattern Analysis and Applications, 2020, 23, 1767-1777.	3.1	6
78	Clustering-Based Reference Set Reduction for k-Nearest Neighbor. Lecture Notes in Computer Science, 2007, , 880-888.	1.0	6
79	Effects of varying parameters on properties of self-organizing feature maps. Neural Processing Letters, 1996, 4, 53-59.	2.0	4
80	Approximate training of one-class support vector machines using expected margin. Computers and Industrial Engineering, 2019, 130, 772-778.	3.4	4
81	Active inspection for cost-effective fault prediction in manufacturing process. Journal of Process Control, 2021, 105, 250-258.	1.7	4
82	An Up-Trend Detection Using an Auto-Associative Neural Network: KOSPI200 Futures. Lecture Notes in Computer Science, 2002, , 359-365.	1.0	3
83	Prototype based outlier detection. , 2006, , .		3
84	Support vector class description (SVCD): Classification in kernel space. Intelligent Data Analysis, 2012, 16, 351-364.	0.4	3
85	Memory Die Clustering and Matching for Optimal Voltage Window in Semiconductor. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 180-187.	1.4	3
86	Ranking process parameter association with low yield wafers using spec-out event network analysis. Computers and Industrial Engineering, 2017, 113, 419-424.	3.4	3
87	Retraining a Novelty Detector with Impostor Patterns for Keystroke Dynamics-Based Authentication. Lecture Notes in Computer Science, 2005, , 633-639.	1.0	3
88	NEURAL NETWORK BASED AUTOMATIC DIAGNOSIS OF CHILDREN WITH BRAIN DYSFUNCTION. International Journal of Neural Systems, 2001, 11, 361-369.	3.2	2
89	Abnormal Usage Sequence Detection for Identification of User Needs via Recurrent Neural Network Semantic Variational Autoencoder. International Journal of Human-Computer Interaction, 2020, 36, 631-640.	3.3	2
90	A scoring model to detect abusive medical institutions based on patient classification system: Diagnosis-related group and ambulatory patient group. Journal of Biomedical Informatics, 2021, 117, 103752.	2.5	2

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91	â€œLeft Shoulderâ€•Detection in Korea Composite Stock Price Index Using an Auto-Associative Neural Network. Lecture Notes in Computer Science, 2000, , 286-291.	1.0	2
92	Bootstrap Based Pattern Selection for Support Vector Regression. , 2008, , 608-615.		1
93	Observational Learning with Modular Networks. Lecture Notes in Computer Science, 2000, , 126-132.	1.0	1
94	A computational model of proprioceptive maps. , 0, , .		0
95	Prototype based outlier detection. , 0, , .		0
96	De-noising documents with a novelty detection method utilizing class vectors. Intelligent Data Analysis, 2018, 22, 717-733.	0.4	0
97	A Learning Sensorimotor Map of Arm Movements: a Step Toward Biological Arm Control. , 1997, , 61-86.		0