Sungzoon Cho

List of Publications by Citations

94 papers	**2,012** citations	**27** h-index	**41** g-index
98 ext. papers	**2,357** ext. citations	**4.4** avg, IF	**5.27** L-index

#	Paper	IF	Citations
94	Web-Based Keystroke Dynamics Identity Verification Using Neural Network. *Journal of Organizational Computing and Electronic Commerce*, **2000**, 10, 295-307	1.8	112
93	Keystroke dynamics identity verification Its problems and practical solutions. *Computers and Security*, **2004**, 23, 428-440	4.9	90
92	Virtual metrology for run-to-run control in semiconductor manufacturing. *Expert Systems With Applications*, **2011**, 38, 2508-2522	7.8	77
91	Bag-of-concepts: Comprehending document representation through clustering words in distributed representation. *Neurocomputing*, **2017**, 266, 336-352	5.4	75
90	Keystroke dynamics-based authentication for mobile devices. *Computers and Security*, **2009**, 28, 85-93	4.9	74
89	A virtual metrology system for semiconductor manufacturing. *Expert Systems With Applications*, **2009**, 36, 12554-12561	7.8	68
88	EUS SVMs: Ensemble of Under-Sampled SVMs for Data Imbalance Problems. *Lecture Notes in Computer Science*, **2006**, 837-846	0.9	68
87	Neighborhood property-based pattern selection for support vector machines. *Neural Computation*, **2007**, 19, 816-55	2.9	67
86	Machine learning-based novelty detection for faulty wafer detection in semiconductor manufacturing. *Expert Systems With Applications*, **2012**, 39, 4075-4083	7.8	66
85	Response models based on bagging neural networks. *Journal of Interactive Marketing*, **2005**, 19, 17-30	9.8	61
84	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	7.8	55
83	Keystroke dynamics-based user authentication using long and free text strings from various input devices. *Information Sciences*, **2015**, 308, 72-93	7.7	53
82	Locally linear reconstruction for instance-based learning. *Pattern Recognition*, **2008**, 41, 3507-3518	7.7	53
81	Response modeling with support vector machines. *Expert Systems With Applications*, **2006**, 30, 746-760	7.8	53
80	Constructing a multi-class classifier using one-against-one approach with different binary classifiers. *Neurocomputing*, **2015**, 149, 677-682	5.4	46
79	Continual Retraining of Keystroke Dynamics Based Authenticator. *Lecture Notes in Computer Science*, **2007**, 1203-1211	0.9	41
78	Approximating support vector machine with artificial neural network for fast prediction. *Expert Systems With Applications*, **2014**, 41, 4989-4995	7.8	33

77	Multi-class classification via heterogeneous ensemble of one-class classifiers. *Engineering Applications of Artificial Intelligence*, **2015**, 43, 35-43	7.2	31
76	Retraining a keystroke dynamics-based authenticator with impostor patterns. *Computers and Security*, **2007**, 26, 300-310	4.9	31
75	Response modeling with support vector regression. *Expert Systems With Applications*, **2008**, 34, 1102-1108	7.8	31
74	Multiple permeability predictions using an observational learning algorithm. *Computers and Geosciences*, **2000**, 26, 907-913	4.5	31
73	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	2.6	30
72	An efficient and effective ensemble of support vector machines for anti-diabetic drug failure prediction. *Expert Systems With Applications*, **2015**, 42, 4265-4273	7.8	30
71	Improving authentication accuracy using artificial rhythms and cues for keystroke dynamics-based authentication. *Expert Systems With Applications*, **2009**, 36, 10649-10656	7.8	30
70	Machine learning-based anomaly detection via integration of manufacturing, inspection and after-sales service data. *Industrial Management and Data Systems*, **2017**, 117, 927-945	3.6	29
69	Mining transportation logs for understanding the after-assembly block manufacturing process in the shipbuilding industry. *Expert Systems With Applications*, **2013**, 40, 83-95	7.8	28
68	Probabilistic local reconstruction for k-NN regression and its application to virtual metrology in semiconductor manufacturing. *Neurocomputing*, **2014**, 131, 427-439	5.4	27
67	Virtual sample generation using a population of networks. *Neural Processing Letters*, **1997**, 5, 21-27	2.4	26
66	Ensemble based on GA wrapper feature selection. *Computers and Industrial Engineering*, **2006**, 51, 111-116	6.4	25
65	Invariance of neighborhood relation under input space to feature space mapping. *Pattern Recognition Letters*, **2005**, 26, 707-718	4.7	25
64	Mining the relationship between production and customer service data for failure analysis of industrial products. *Computers and Industrial Engineering*, **2017**, 106, 137-146	6.4	23
63	. *IEEE Transactions on Semiconductor Manufacturing*, **2015**, 28, 431-437	2.6	23
62	Efficient Feature Selection-Based on Random Forward Search for Virtual Metrology Modeling. *IEEE Transactions on Semiconductor Manufacturing*, **2016**, 29, 391-398	2.6	21
61	Novelty Detection Approach for Keystroke Dynamics Identity Verification. *Lecture Notes in Computer Science*, **2003**, 1016-1023	0.9	21
60	Fast Pattern Selection for Support Vector Classifiers. *Lecture Notes in Computer Science*, **2003**, 376-387	0.9	21

59	A hybrid novelty score and its use in keystroke dynamics-based user authentication. *Pattern Recognition*, **2009**, 42, 3115-3127	7.7	18
58	Semi-Supervised Response Modeling. *Journal of Interactive Marketing*, **2010**, 24, 42-54	9.8	18
57	Focusing on non-respondents: Response modeling with novelty detectors. *Expert Systems With Applications*, **2007**, 33, 522-530	7.8	18
56	The Novelty Detection Approach for Different Degrees of Class Imbalance. *Lecture Notes in Computer Science*, **2006**, 21-30	0.9	17
55	Improving spherical k-means for document clustering: Fast initialization, sparse centroid projection, and efficient cluster labeling. *Expert Systems With Applications*, **2020**, 150, 113288	7.8	16
54	Improved response modeling based on clustering, under-sampling, and ensemble. *Expert Systems With Applications*, **2012**, 39, 6738-6753	7.8	16
53	Improvement of keystroke data quality through artificial rhythms and cues. *Computers and Security*, **2008**, 27, 3-11	4.9	16
52	Application of LVQ to novelty detection using outlier training data. *Pattern Recognition Letters*, **2006**, 27, 1572-1579	4.7	16
51	Active Learning of Convolutional Neural Network for Cost-Effective Wafer Map Pattern Classification. *IEEE Transactions on Semiconductor Manufacturing*, **2020**, 33, 258-266	2.6	14
50	Multiple disorder diagnosis with adaptive competitive neural networks. *Artificial Intelligence in Medicine*, **1993**, 5, 469-87	7.4	13
49	Smartphone user segmentation based on app usage sequence with neural networks. *Telematics and Informatics*, **2018**, 35, 329-339	8.1	13
48	Optimal construction of one-against-one classifier based on meta-learning. *Neurocomputing*, **2015**, 167, 459-466	5.4	12
47	Observational Learning Algorithm for an Ensemble of Neural Networks. *Pattern Analysis and Applications*, **2002**, 5, 154-167	2.3	12
46	Artificial Rhythms and Cues for Keystroke Dynamics Based Authentication. *Lecture Notes in Computer Science*, **2005**, 626-632	0.9	12
45	Virtual metrology for copper-clad laminate manufacturing. *Computers and Industrial Engineering*, **2017**, 109, 280-287	6.4	11
44	Product failure prediction with missing data. *International Journal of Production Research*, **2018**, 56, 4849-4859	7.4	11
43	SOM-Based Novelty Detection Using Novel Data. *Lecture Notes in Computer Science*, **2005**, 359-366	0.9	11
42	Knowledge extraction and visualization of digital design process. *Expert Systems With Applications*, **2018**, 92, 206-215	7.8	10

41	Multivariate Control Charts Based on Hybrid Novelty Scores. *Communications in Statistics Part B: Simulation and Computation*, **2014**, 43, 115-131	0.6	10
40	Supporting diagnosis of attention-deficit hyperactive disorder with novelty detection. *Artificial Intelligence in Medicine*, **2008**, 42, 199-212	7.4	10
39	Map formation in proprioceptive cortex. *International Journal of Neural Systems*, **1994**, 5, 87-101	6.2	10
38	GA SVM Wrapper Ensemble for Keystroke Dynamics Authentication. *Lecture Notes in Computer Science*, **2005**, 654-660	0.9	10
37	Pattern selection for support vector regression based response modeling. *Expert Systems With Applications*, **2012**, 39, 8975-8985	7.8	9
36	K-Means Clustering Seeds Initialization Based on Centrality, Sparsity, and Isotropy. *Lecture Notes in Computer Science*, **2009**, 109-117	0.9	9
35	Knowledge discovery in inspection reports of marine structures. *Expert Systems With Applications*, **2014**, 41, 1153-1167	7.8	8
34	Learning Competition and Cooperation. *Neural Computation*, **1993**, 5, 242-259	2.9	8
33	Extraction of Product Evaluation Factors with a Convolutional Neural Network and Transfer Learning. *Neural Processing Letters*, **2019**, 50, 149-164	2.4	8
32	Data based segmentation and summarization for sensor data in semiconductor manufacturing. *Expert Systems With Applications*, **2014**, 41, 2619-2629	7.8	7
31	Improvement of virtual metrology performance by removing metrology noises in a training dataset. *Pattern Analysis and Applications*, **2015**, 18, 173-189	2.3	6
30	Reliable prediction of anti-diabetic drug failure using a reject option. *Pattern Analysis and Applications*, **2017**, 20, 883-891	2.3	6
29	A novel multi-class classification algorithm based on one-class support vector machine. *Intelligent Data Analysis*, **2015**, 19, 713-725	1.1	6
28	Fast Pattern Selection Algorithm for Support Vector Classifiers: Time Complexity Analysis. *Lecture Notes in Computer Science*, **2003**, 1008-1015	0.9	6
27	Clustering-Based Reference Set Reduction for k-Nearest Neighbor. *Lecture Notes in Computer Science*, **2007**, 880-888	0.9	6
26	Improving Authentication Accuracy of Unfamiliar Passwords with Pauses and Cues for Keystroke Dynamics-Based Authentication. *Lecture Notes in Computer Science*, **2006**, 73-78	0.9	6
25	Applying convolution filter to matrix of word-clustering based document representation. *Neurocomputing*, **2018**, 315, 210-220	5.4	5
24	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	2.3	5

23	Account-Sharing Detection Through Keystroke Dynamics Analysis. *International Journal of Electronic Commerce*, **2009**, 14, 109-126	5.4	5
22	Determining user needs through abnormality detection and heterogeneous embedding of usage sequence. *Electronic Commerce Research*, **2021**, 21, 245-261	2.1	5
21	Expected margin‐based pattern selection for support vector machines. *Expert Systems With Applications*, **2020**, 139, 112865	7.8	4
20	Document representation based on probabilistic word clustering in customer-voice classification. *Pattern Analysis and Applications*, **2019**, 22, 221-232	2.3	3
19	Approximate training of one-class support vector machines using expected margin. *Computers and Industrial Engineering*, **2019**, 130, 772-778	6.4	3
18	Extraction and prioritization of product attributes using an explainable neural network. *Pattern Analysis and Applications*, **2020**, 23, 1767-1777	2.3	3
17	Support vector class description (SVCD): Classification in kernel space. *Intelligent Data Analysis*, **2012**, 16, 351-364	1.1	3
16	Effects of varying parameters on properties of self-organizing feature maps. *Neural Processing Letters*, **1996**, 4, 53-59	2.4	3
15	Ranking process parameter association with low yield wafers using spec-out event network analysis. *Computers and Industrial Engineering*, **2017**, 113, 419-424	6.4	2
14	Neural network based automatic diagnosis of children with brain dysfunction. *International Journal of Neural Systems*, **2001**, 11, 361-9	6.2	2
13	An Up-Trend Detection Using an Auto-Associative Neural Network: KOSPI200 Futures. *Lecture Notes in Computer Science*, **2002**, 359-365	0.9	2
12	‐Left Shoulder‐Detection in Korea Composite Stock Price Index Using an Auto-Associative Neural Network. *Lecture Notes in Computer Science*, **2000**, 286-291	0.9	2
11	Retraining a Novelty Detector with Impostor Patterns for Keystroke Dynamics-Based Authentication. *Lecture Notes in Computer Science*, **2005**, 633-639	0.9	2
10	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	3.6	2
9	Adaptive fault detection framework for recipe transition in semiconductor manufacturing. *Computers and Industrial Engineering*, **2021**, 161, 107632	6.4	2
8	Memory Die Clustering and Matching for Optimal Voltage Window in Semiconductor. *IEEE Transactions on Semiconductor Manufacturing*, **2015**, 28, 180-187	2.6	1
7	Bootstrap Based Pattern Selection for Support Vector Regression **2008**, 608-615		1
6	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	10.2	1

List of Publications

5   Active inspection for cost-effective fault prediction in manufacturing process. *Journal of Process Control*, **2021**, 105, 250-258   3.9   1

4   Active cluster annotation for wafer map pattern classification in semiconductor manufacturing. *Expert Systems With Applications*, **2021**, 183, 115429   7.8   0

3   De-noising documents with a novelty detection method utilizing class vectors. *Intelligent Data Analysis*, **2018**, 22, 717-733   1.1

2   Observational Learning with Modular Networks. *Lecture Notes in Computer Science*, **2000**, 126-132   0.9

1   A Learning Sensorimotor Map of Arm Movements: a Step Toward Biological Arm Control **1997**, 61-86