Sobhan Sarkar

List of Publications by Year
in descending order

44 papers	803 citations	687335 13 h-index	610883 24 g-index
48 all docs	48 docs citations	48 times ranked	375 citing authors

#	Article	IF	Citations
1	Application of optimized machine learning techniques for prediction of occupational accidents. Computers and Operations Research, 2019, 106, 210-224.	4.0	127
2	Predicting and analyzing injury severity: A machine learning-based approach using class-imbalanced proactive and reactive data. Safety Science, 2020, 125, 104616.	4.9	64
3	Machine learning in occupational accident analysis: A review using science mapping approach with citation network analysis. Safety Science, 2020, 131, 104900.	4.9	56
4	An optimization-based decision tree approach for predicting slip-trip-fall accidents at work. Safety Science, 2019, 118, 57-69.	4.9	55
5	An integrated fuzzy multiple criteria supplier selection approach and its application in a welding company. Journal of Manufacturing Systems, 2018, 46, 163-178.	13.9	51
6	A real-time video surveillance system for traffic pre-events detection. Accident Analysis and Prevention, 2021, 154, 106019.	5.7	35
7	Prediction of occupational accidents using decision tree approach. , 2016, , .		29
8	Text mining based safety risk assessment and prediction of occupational accidents in a steel plant. , 2016, , .		29
9	Predictive model for incident occurrences in steel plant in India. , 2017, , .		25
10	Parametric and Non-Parametric Analyses for Pedestrian Crash Severity Prediction in Great Britain. Sustainability, 2022, 14, 3188.	3.2	25
11	Study of optimized SVM for incident prediction of a steel plant in India. , 2016, , .		20
12	Segmented point process models for work system safety analysis. Safety Science, 2017, 95, 15-27.	4.9	18
13	Application of hybrid clustering technique for pattern extraction of accident at work: A case study of a steel industry. , 2018, , .		18
14	RT-GSOM: Rough tolerance growing self-organizing map. Information Sciences, 2021, 566, 19-37.	6.9	18
15	Genetic Algorithm-Based Association Rule Mining Approach Towards Rule Generation ofÂOccupational Accidents. Communications in Computer and Information Science, 2017, , 517-530.	0.5	18
16	Measurement and Modeling of Job Stress of Electric Overhead Traveling Crane Operators. Safety and Health at Work, 2015, 6, 279-288.	0.6	15
17	Application of rough set theory in accident analysis at work: A case study. , 2017, , .		14
18	Data-driven Mapping Between Proactive and Reactive Measures of Occupational Safety Performance. Managing the Asian Century, 2018, , 53-63.	0.2	13

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19	Oil Spill Detection Using Image Processing Technique: An Occupational Safety Perspective of a Steel Plant. Advances in Intelligent Systems and Computing, 2019, , 247-257.	0.6	13
20	Modelling safety of gantry crane operations using Petri nets. International Journal of Injury Control and Safety Promotion, 2017, 24, 32-43.	2.0	12
21	Application of Bayesian network model in explaining occupational accidents in a steel industry. , 2017, , .		12
22	Prediction of Occupational Incidents Using Proactive and Reactive Data: A Data Mining Approach. Managing the Asian Century, 2018, , 65-79.	0.2	12
23	Text-clustering based deep neural network for prediction of occupational accident risk: A case study. , 2018, , .		12
24	Decision Support System for Prediction of Occupational Accident: A Case Study from a Steel Plant. Advances in Intelligent Systems and Computing, 2019, , 787-796.	0.6	11
25	COVID-19 outbreak: A data-driven optimization model for allocation of patients. Computers and Industrial Engineering, 2021, 161, 107675.	6.3	11
26	An Ensemble Learning-Based Undersampling Technique for Handling Class-Imbalance Problem. Lecture Notes in Electrical Engineering, 2020, , 586-595.	0.4	10
27	Region proposal and object detection using HoG-based CNN feature map. , 2020, , .		10
28	Root Cause Analysis of Incidents Using Text Clustering and Classification Algorithms. Lecture Notes in Electrical Engineering, 2020, , 707-718.	0.4	9
29	An Investigation of the Effects of Missing Data Handling Using â€˜Râ€™-Packages. Advances in Intelligent Systems and Computing, 2020, , 275-284.	0.6	9
30	Supplier Selection in Uncertain Environment: A Fuzzy MCDM Approach. Advances in Intelligent Systems and Computing, 2017, , 257-266.	0.6	8
31	A Novel Feature Extraction-based Human Identification Approach using 2D Ear Biometric. , 2018, , .		8
32	Dynamic Functional Bandwidth Kernel-Based SVM: An Efficient Approach for Functional Data Analysis. Advances in Intelligent Systems and Computing, 2021, , 673-681.	0.6	6
33	GSEL: A Genetic Stacking-Based Ensemble Learning Approach for Incident Classification. Lecture Notes in Electrical Engineering, 2020, , 719-730.	0.4	5
34	Text Mining-Based Association Rule Mining for Incident Analysis: A Case Study of a Steel Plant in India. Communications in Computer and Information Science, 2021, , 257-273.	0.5	4
35	Personality Traits Identification Through Handwriting Analysis. Communications in Computer and Information Science, 2021, , 155-169.	0.5	4
36	Semi-automated Ontology Creation andÂUpgradation for Rail-Road Incidents: AÂCase of a Steel Plant in India. Lecture Notes in Networks and Systems, 2021, , 285-294.	0.7	3

#	Article	IF	Citations
37	A Novel Optimized Method forÂFeature Selection Using Non-linear Kernel-Free Twin Quadratic Surface Support Vector Machine. Communications in Computer and Information Science, 2022, , 339-353.	0.5	3
38	An integrated approach using growing self-organizing map-based genetic K-means clustering and tolerance rough set in occupational risk analysis. Neural Computing and Applications, 0, , .	5.6	3
39	Classification and pattern extraction of incidents: a deep learning-based approach. Neural Computing and Applications, 2022, 34, 14253-14274.	5.6	2
40	Impact of operating speed measures on traffic crashes: Annual and daily level models for rural two-lane and rural multilane roadways. Journal of Transportation Safety and Security, 2023, 15, 584-603.	1.6	2
41	A Structural Topic Modeling-Based Machine Learning Approach for Pattern Extraction from Accident Data. Advances in Intelligent Systems and Computing, 2020, , 555-564.	0.6	1
42	Pattern Extraction Using Proactive and Reactive Data: A Case Study of Contractorsâ€™ Safety in a Steel Plant. Lecture Notes in Electrical Engineering, 2020, , 731-742.	0.4	1
43	D_iPSVM: A Polynomial Kernel-free Support Vector Machine. , 2021, , .		1
44	A kernel-free support vector machine with Q-margin. , 2021, , .		0