Conrad S Tucker

List of Publications by Year
in descending order

56 papers	1,342 citations	393982 19 h-index	395343 33 g-index
57 all docs	57 docs citations	57 times ranked	1181 citing authors

#	Article	IF	Citations
1	Classification of unlabeled online media. Scientific Reports, 2021, 11, 6908.	1.6	0
2	Evaluation of biases in remote photoplethysmography methods. Npj Digital Medicine, 2021, 4, 91.	5.7	39
3	Node classification using kernel propagation in graph neural networks. Expert Systems With Applications, 2021, 174, 114655.	4.4	6
4	Toward Personalized Adaptive Gamification: A Machine Learning Model for Predicting Performance. IEEE Transactions on Games, 2020, 12, 155-168.	1.2	27
5	A sparsity preserving genetic algorithm for extracting diverse functional 3D designs from deep generative neural networks. Design Science, 2020, 6, .	1.1	3
6	3D Design Using Generative Adversarial Networks and Physics-Based Validation. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	49
7	Detection of System Compromise in Additive Manufacturing Using Video Motion Magnification. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, .	1.7	8
8	Mining Twitter data for causal links between tweets and real-world outcomes. Expert Systems With Applications: X, 2019, 3, 100007.	4.6	8
9	Random Forest Modeling for Survival Analysis of Cancer Recurrences. , 2019, , .		7
10	The effects of player type on performance: A gamification case study. Computers in Human Behavior, 2019, 91, 333-345.	5.1	87
11	An Investigation of Surrogate Models for Efficient Performance-Based Decoding of 3D Point Clouds. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	1.7	13
12	Mining Facial Keypoint Data: The Quest Toward Personalized Engineering Applications. , 2019, , 97-112.		2
13	Automated Discovery of Product Feature Inferences Within Large-Scale Implicit Social Media Data. Journal of Computing and Information Science in Engineering, 2018, 18, .	1.7	11
14	Discovering Discontinuity in Big Financial Transaction Data. ACM Transactions on Management Information Systems, 2018, 9, 1-26.	2.1	6
15	Exploring the correlation between new function attributes mined from different product domains and market sales. Engineering Economist, 2018, 63, 113-142.	0.3	3
16	An Unsupervised Machine Learning Approach to Assessing Designer Performance During Physical Prototyping. Journal of Computing and Information Science in Engineering, 2018, 18, .	1.7	10
17	Bounded Kalman filter method for motion-robust, non-contact heart rate estimation. Biomedical Optics Express, 2018, 9, 873.	1.5	40
18	An unsupervised machine learning method for discovering patient clusters based on genetic signatures. Journal of Biomedical Informatics, 2018, 85, 30-39.	2.5	71

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19	A semantic network model for measuring engagement and performance in online learning platforms. Computer Applications in Engineering Education, 2018, 26, 1481-1492.	2.2	14
20	Automatic Facial Feature Extraction for Predicting Designers' Comfort With Engineering Equipment During Prototype Creation. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	14
21	A quantitative method for evaluating the complexity of implementing and performing game features in physically-interactive gamified applications. Computers in Human Behavior, 2017, 71, 42-58.	5.1	17
22	How are you feeling?: A personalized methodology for predicting mental states from temporally observable physical and behavioral information. Journal of Biomedical Informatics, 2017, 68, 1-19.	2.5	33
23	A machine learning approach to product review disambiguation based on function, form and behavior classification. Decision Support Systems, 2017, 97, 81-91.	3.5	44
24	An unsupervised machine learning model for discovering latent infectious diseases using social media data. Journal of Biomedical Informatics, 2017, 66, 82-94.	2.5	92
25	A Convolutional Neural Network Model for Predicting a Product's Function, Given Its Form. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	22
26	Evaluating the cost-effectiveness of an early detection of Parkinson's disease through innovative technology. Engineering Economist, 2017, 62, 180-196.	0.3	7
27	From Mining Affective States to Mining Facial Keypoint Data: The Quest Towards Personalized Feedback. , 2017, , .		4
28	Mitigating Online Product Rating Biases Through the Discovery of Optimistic, Pessimistic, and Realistic Reviewers. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	1.7	12
29	Quantifying the Mismatch Between Course Content and Students' Dialogue in Online Learning Environments. , 2017, , .		0
30	Using Large-Scale Social Media Networks as a Scalable Sensing System for Modeling Real-Time Energy Utilization Patterns. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2627-2640.	5.9	11
31	Assessing causal claims about complex engineered systems with quantitative data: internal, external, and construct validity. Systems Engineering, 2017, 20, 483-496.	1.6	15
32	Exposure to Digital and Hands-on Delivery Modes in Engineering Design Education and Their Impact on Task Completion Efficiency. Journal of Integrated Design and Process Science, 2017, 21, 61-78.	0.2	7
33	Generative adversarial networks for increasing the veracity of big data. , 2017, , .		9
34	Modeling the Semantic Structure of Textually Derived Learning Content and its Impact on Recipients' Response States. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	1.7	8
35	Automated discovery of product preferences in ubiquitous social media data: A case study of automobile market. , 2016, , .		4
36	A Bayesian Sampling Method for Product Feature Extraction From Large-Scale Textual Data. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	1.7	26

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37	Exploring the Link Between Task Complexity and Students' Affective States During Engineering Laboratory Activities. , 2016, , .		5
38	Knowledge discovery of game design features by mining user-generated feedback. Computers in Human Behavior, 2016, 60, 361-371.	5.1	27
39	An automated approach to quantifying functional interactions by mining large-scale product specification data. Journal of Engineering Design, 2016, 27, 1-24.	1.1	20
40	Automated Discovery of Lead Users and Latent Product Features by Mining Large Scale Social Media Networks. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, .	1.7	63
41	A data mining methodology for predicting early stage Parkinson's disease using non-invasive, high-dimensional gait sensor data. IIE Transactions on Healthcare Systems Engineering, 2015, 5, 238-254.	0.8	17
42	Quantifying Product Favorability and Extracting Notable Product Features Using Large Scale Social Media Data. Journal of Computing and Information Science in Engineering, 2015, 15, .	1.7	77
43	Machine learning classification of design team members' body language patterns for real time emotional state detection. Design Studies, 2015, 39, 100-127.	1.9	51
44	Machine learning classification of medication adherence in patients with movement disorders using non-wearable sensors. Computers in Biology and Medicine, 2015, 66, 120-134.	3.9	68
45	Modeling Individual-Level Infection Dynamics Using Social Network Information. , 2015, , .		14
46	Quantifying Emotional States Based on Body Language Data Using Non Invasive Sensors. , 2014, , .		2
47	Discovering Next Generation Product Innovations by Identifying Lead User Preferences Expressed Through Large Scale Social Media Data. , 2014, , .		23
48	Increasing the veracity of event detection on social media networks through user trust modeling. , 2014, , .		27
49	An ensemble heterogeneous classification methodology for discovering health-related knowledge in social media messages. Journal of Biomedical Informatics, 2014, 49, 255-268.	2.5	95
50	Product Resynthesis: Knowledge Discovery of the Value of End-of-Life Assemblies and Subassemblies. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, .	1.7	10
51	Fad or Here to Stay: Predicting Product Market Adoption and Longevity Using Large Scale, Social Media Data. , 2013, , .		37
52	Discovering health-related knowledge in social media using ensembles of heterogeneous features. , 2013, , .		20
53	A Privacy Preserving Data Mining Methodology for Dynamically Predicting Emerging Human Threats. , 2013, , .		1
54	A Bisociative Design Framework for Knowledge Discovery Across Seemingly Unrelated Product Domains. , 2012, , .		6

#	Article	IF	Citations
55	Trend Mining for Predictive Product Design. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	1.7	44
56	Board # 91 :When to Provide Feedback? Exploring Human-Co-Robot Interactions in Engineering Environments. , 0, , .		1