

Roman Kern

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

626
citations

759233

12
h-index

752698

20
g-index

70
all docs

70
docs citations

70
times ranked

633
citing authors

#	ARTICLE	IF	CITATIONS
1	Gaussian Process Surrogates for Modeling Uncertainties in a Use Case of Forging Superalloys. Applied Sciences (Switzerland), 2022, 12, 1089.	2.5	11
2	Improving the Consistency of the Failure Mode Effect Analysis (FMEA) Documents in Semiconductor Manufacturing. Applied Sciences (Switzerland), 2022, 12, 1840.	2.5	6
3	ManEx: The Visual Analysis of Measurements for the Assessment of Errors in Electrical Engines. IEEE Computer Graphics and Applications, 2022, 42, 68-80.	1.2	0
4	Constructing robust health indicators from complex engineered systems via anticausal learning. Engineering Applications of Artificial Intelligence, 2022, 113, 104926.	8.1	10
5	Understanding the true effects of the COVID-19 lockdown on air pollution by means of machine learning. Environmental Pollution, 2021, 274, 115900.	7.5	54
6	Cluster Purging: Efficient Outlier Detection based on Rate-Distortion Theory. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	1
7	Predictive Capability of QSAR Models Based on the CompTox Zebrafish Embryo Assays: An Imbalanced Classification Problem. Molecules, 2021, 26, 1617.	3.8	8
8	Predicting Treatment Outcomes Using Explainable Machine Learning in Children with Asthma. Children, 2021, 8, 376.	1.5	9
9	Machine learning in prediction of intrinsic aqueous solubility of drug-like compounds: Generalization, complexity, or predictive ability?. Journal of Chemometrics, 2021, 35, e3349.	1.3	25
10	Should We Embed in Chemistry? A Comparison of Unsupervised Transfer Learning with PCA, UMAP, and VAE on Molecular Fingerprints. Pharmaceuticals, 2021, 14, 758.	3.8	9
11	Mesh-Free Surrogate Models for Structural Mechanic FEM Simulation: A Comparative Study of Approaches. Applied Sciences (Switzerland), 2021, 11, 9411.	2.5	10
12	KOMPOS: Connecting Causal Knots in Large Nonlinear Time Series with Non-Parametric Regression Splines. ACM Transactions on Intelligent Systems and Technology, 2021, 12, 1-27.	4.5	3
13	Deep learning—a first meta-survey of selected reviews across scientific disciplines, their commonalities, challenges and research impact. PeerJ Computer Science, 2021, 7, e773.	4.5	18
14	A generative semi-supervised classifier for datasets with unknown classes. , 2020, , .		2
15	Parasitic resistance as a predictor of faulty anodes in electro galvanizing: a comparison of machine learning, physical and hybrid models. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	7
16	A Neural-based Architecture For Small Datasets Classification. , 2020, , .		1
17	Enhanced Active Learning of Convolutional Neural Networks: A Case Study for Defect Classification in the Semiconductor Industry. , 2020, , .		1
18	SAZED: parameter-free domain-agnostic season length estimation in time series data. Data Mining and Knowledge Discovery, 2019, 33, 1775-1798.	3.7	7

#	ARTICLE	IF	CITATIONS
19	Self- and Cross-Excitation in Stack Exchange Question & Answer Communities. , 2019, , .		5
20	Feature Extraction From Analog Wafermaps: A Comparison of Classical Image Processing and a Deep Generative Model. IEEE Transactions on Semiconductor Manufacturing, 2019, 32, 190-198.	1.7	18
21	PySpark and RDKit: Moving towards Big Data in Cheminformatics. Molecular Informatics, 2019, 38, e1800082.	2.5	47
22	A Health Factor for Process Patterns Enhancing Semiconductor Manufacturing by Pattern Recognition in Analog Wafermaps. , 2019, , .		2
23	Authorship identification of documents with high content similarity. Scientometrics, 2018, 115, 223-237.	3.0	26
24	A Comparison of Supervised Approaches for Process Pattern Recognition in Analog Semiconductor Wafer Test Data. , 2018, , .		8
25	Driver's dashboard " using social media data as additional information for motorway operators. IET Intelligent Transport Systems, 2018, 12, 1116-1122.	3.0	6
26	Source selection of long tail sources for federated search in an uncooperative setting. , 2018, , .		4
27	QZTool"Automatically Generated Origin-Destination Matrices from Cell Phone Trajectories. Advances in Intelligent Systems and Computing, 2017, , 823-833.	0.6	14
28	Big data as a promoter of industry 4.0: Lessons of the semiconductor industry. , 2017, , .		17
29	Markov random fields for pattern extraction in analog wafer test data. , 2017, , .		5
30	Evaluation of Contextualization and Diversification Approaches in Aggregated Search. , 2017, , .		0
31	Ubiquitous Access to Digital Cultural Heritage. Journal on Computing and Cultural Heritage, 2017, 10, 1-27.	2.1	17
32	A semantic federated search engine for domain-specific document retrieval. , 2017, , .		4
33	Query Splitting for Context-Driven Federated Recommendations. , 2016, , .		0
34	An Information Retrieval Based Approach for Multilingual Ontology Matching. Lecture Notes in Computer Science, 2016, , 433-439.	1.3	1
35	Polarity Classification for Target Phrases in Tweets: A Word2Vec Approach. Lecture Notes in Computer Science, 2016, , 217-223.	1.3	22
36	Know-Center at SemEval-2016 Task 5: Using Word Vectors with Typed Dependencies for Opinion Target Expression Extraction. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
37	Generating Tailored Classification Schemas for German Patents. Lecture Notes in Computer Science, 2016, , 230-238.	1.3	0
38	Do Ambiguous Words Improve Probing for Federated Search?. Lecture Notes in Computer Science, 2016, , 438-441.	1.3	0
39	Efficient Search Result Diversification via Query Expansion Using Knowledge Bases. , 2015, , .		3
40	Map-Matching Cell Phone Trajectories of Low Spatial and Temporal Accuracy. , 2015, , .		11
41	Deriving Public Transportation Timetables with Large-Scale Cell Phone Data. Procedia Computer Science, 2015, 52, 67-74.	2.0	14
42	Evaluation of Pseudo Relevance Feedback Techniques for Cross Vertical Aggregated Search. Lecture Notes in Computer Science, 2015, , 91-102.	1.3	3
43	Efficient Table Annotation for Digital Articles. D-Lib Magazine, 2015, 21, .	0.5	2
44	Unsupervised document structure analysis of digital scientific articles. International Journal on Digital Libraries, 2014, 14, 83-99.	1.5	16
45	Is enterprise search useful at all?. , 2014, , .		2
46	Unleashing Semantics of Research Data. Lecture Notes in Computer Science, 2014, , 103-112.	1.3	5
47	A Comparison of Two Unsupervised Table Recognition Methods from Digital Scientific Articles. D-Lib Magazine, 2014, 20, .	0.5	6
48	Towards a Marketplace for the Scientific Community: Accessing Knowledge from the Computer Science Domain. D-Lib Magazine, 2014, 20, .	0.5	2
49	Extraction of References Using Layout and Formatting Information from Scientific Articles. D-Lib Magazine, 2013, 19, .	0.5	11
50	Understanding why users tag: A survey of tagging motivation literature and results from an empirical study. Web Semantics, 2012, 17, 1-11.	2.9	36
51	A comparison of layout based bibliographic metadata extraction techniques. , 2012, , .		9
52	Model Selection Strategies for Author Disambiguation. , 2011, , .		2
53	A hybrid system for German encyclopedia alignment. International Journal on Digital Libraries, 2010, 11, 75-89.	1.5	1
54	Of categorizers and describers. , 2010, , .		42

#	ARTICLE	IF	CITATIONS
55	Analysis of structural relationships for hierarchical cluster labeling. , 2010, , .		18
56	Exploring the Influence of Tagging Motivation on Tagging Behavior. Lecture Notes in Computer Science, 2010, , 461-465.	1.3	1
57	Efficient linear text segmentation based on information retrieval techniques. , 2009, , .		13
58	Extending Folksonomies for Image Tagging. , 2008, , .		7
59	Recommending Tags for Pictures Based on Text, Visual Content and User Context. , 2008, , .		19
60	Aspects of Broad Folksonomies. , 2007, , .		9
61	Distributed Web2.0 crawling for ontology evolution. , 2007, , .		2