

Tomasz Bednarz

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

1,000
citations

516710

16
h-index

552781

26
g-index

103
all docs

103
docs citations

103
times ranked

779
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of digital twins for remote operation of membrane capacitive deionization (mCEDI) systems. Desalination, 2022, 525, 115482.	8.2	15
2	Gravity++: A graph-based framework for constructing interactive visualization narratives. Journal of Computer Languages, 2022, 71, 101125.	2.1	2
3	The visual analytics of big, open public transport data – a framework and pipeline for monitoring system performance in Greater Sydney. Big Earth Data, 2021, 5, 134-159.	4.4	9
4	Understanding the effects of real-time sentiment analysis and morale visualisation in backchannel systems: A case study. International Journal of Human Computer Studies, 2021, 145, 102524.	5.6	4
5	A visualization tool for citizen-science marine debris big data. Water International, 2021, 46, 211-223.	1.0	4
6	Generative Adversarial Networks – Enabled Human – Artificial Intelligence Collaborative Applications for Creative and Design Industries: A Systematic Review of Current Approaches and Trends. Frontiers in Artificial Intelligence, 2021, 4, 604234.	3.4	22
7	A review of computer graphics approaches to urban modeling from a machine learning perspective. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 915-925.	2.6	9
8	Explainable AI and Reinforcement Learning – A Systematic Review of Current Approaches and Trends. Frontiers in Artificial Intelligence, 2021, 4, 550030.	3.4	60
9	EyeXplain Autism: Interactive System for Eye Tracking Data Analysis and Deep Neural Network Interpretation for Autism Spectrum Disorder Diagnosis. , 2021, , .		8
10	Three trajectories for narrative visualisation. Visual Informatics, 2021, 5, 26-40.	4.4	7
11	Visual analytics for large networks. , 2021, , .		0
12	RST as Narrative Structure for Node-Based Editors. , 2021, , .		0
13	Joint Augmented Reality Video Analytics and Artificial Intelligence Supervision. , 2021, , .		0
14	A review and reframing of participatory urban dashboards. City, Culture and Society, 2020, 20, 100294.	2.3	28
15	Monitoring through many eyes: Integrating disparate datasets to improve monitoring of the Great Barrier Reef. Environmental Modelling and Software, 2020, 124, 104557.	4.5	9
16	A stochastic model of jaguar abundance in the Peruvian Amazon under climate variation scenarios. Ecology and Evolution, 2020, 10, 10829-10850.	1.9	1
17	The Effect of Narration on User Comprehension and Recall of Information Visualisations. , 2020, , .		2
18	Authoring logically sequenced visual data stories with Gravity. Journal of Computer Languages, 2020, 58, 100961.	2.1	5

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19	Computer vision in autism spectrum disorder research: a systematic review of published studies from 2009 to 2019. <i>Translational Psychiatry</i> , 2020, 10, 333.	4.8	77
20	eXplainable AI (XAI). , 2020, , .		6
21	Double Vision: Digital Twin applications within Extended Reality. , 2020, , .		5
22	Creating 3D worlds through storytelling and narration. , 2020, , .		0
23	Digital Twin of the Australian Square Kilometre Array (ASKAP). , 2020, , .		3
24	User Experience in Collaborative Extended Reality: Overview Study. <i>Lecture Notes in Computer Science</i> , 2020, , 41-70.	1.3	13
25	Visually Impaired User Experience using a 3D-Enhanced Facility Management System for Indoors Navigation. , 2020, , .		1
26	Information visualisation methods and techniques: State-of-the-art and future directions. <i>Journal of Industrial Information Integration</i> , 2019, 16, 100102.	6.4	15
27	Visualisation Design as Language Transformations - From Conceptual Models to Graphics Grammars. , 2019, , .		0
28	Collaborative Data Analytics Using Virtual Reality. , 2019, , .		10
29	Selective Detection and Segmentation of Cervical Cells. , 2019, , .		6
30	A study of the effects of narration on comprehension and memorability of visualisations. <i>Journal of Computer Languages</i> , 2019, 52, 113-124.	2.1	18
31	A Framework for Authoring Logically Ordered Visual Data Stories. , 2019, , .		1
32	Mixed Reality and Internet of Things (MRIoT) Interface Design Guidelines for Elderly People. , 2019, , .		4
33	Immersive Analytics using Augmented Reality for Computational Fluid Dynamics Simulations. , 2019, , .		0
34	Integrating Mixed Reality and Internet of Things as an Assistive Technology for Elderly People Living in a Smart Home. , 2019, , .		13
35	Non-Euclidean Embeddings for Graph Analytics and Visualisation. , 2019, , .		1
36	Multi-Modal High-End Visualization System. , 2019, , .		6

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37	HoloCity – exploring the use of augmented reality cityscapes for collaborative understanding of high-volume urban sensor data. , 2019, , .		16
38	A systematic review of the current state of collaborative mixed reality technologies: 2013–2018. AIMS Electronics and Electrical Engineering, 2019, 3, 181-223.	1.5	67
39	A Data-Driven Optimisation Approach to Urban Multi-Site Selection for Public Services and Retails. , 2019, , .		0
40	Containerisation as a method for supporting multiple VR visualisation platforms from a single data source. , 2019, , .		0
41	Visual analytics of single cell microscopy data using a collaborative immersive environment. , 2018, , .		7
42	PedaViz. , 2018, , .		3
43	Automatic site selection of cultural venues. , 2018, , .		0
44	Future-mine VR as narrative decision making tool. , 2018, , .		0
45	Interactive scenario visualisation in immersive virtual environments for decision making support. , 2018, , .		1
46	HoloSensor for smart home, health, entertainment. , 2018, , .		11
47	An image-guided radiotherapy decision support framework incorporating a Bayesian network and visualization tool. Medical Physics, 2018, 45, 2884-2897.	3.0	7
48	A feature alignment score for online cone-beam CT –based image-guided radiotherapy for prostate cancer. Medical Physics, 2018, 45, 2898-2911.	3.0	3
49	Making graph visualization a user-centered process. Journal of Visual Languages and Computing, 2018, 48, 1-8.	1.8	14
50	Using virtual reality to estimate aesthetic values of coral reefs. Royal Society Open Science, 2018, 5, 172226.	2.4	14
51	Visual microscope for massive genomics datasets, expanded perception and interaction. , 2018, , .		1
52	Visual analytics of big networks. , 2018, , .		1
53	Using population of models to investigate and quantify gas production in a spatially heterogeneous coal seam gas field. Applied Mathematical Modelling, 2017, 49, 338-353.	4.2	2
54	Modelling imperfect presence data obtained by citizen science. Environmetrics, 2017, 28, e2446.	1.4	19

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55	Virtual reality to save endangered animals: Many eyes on the wild. , 2017, , .		1
56	Visual communication of ecoacoustic data to general audiences. , 2017, , .		0
57	Image Classification to Support Emergency Situation Awareness. Frontiers in Robotics and AI, 2016, 3, .	3.2	30
58	Efficient GPU Computing Framework of Cloud Filtering in Remotely Sensed Image Processing. , 2016, , .		4
59	Glance. , 2016, , .		9
60	A process for non-expert user visualization design. , 2016, , .		1
61	Virtual reality for conservation. , 2016, , .		7
62	Optimized GPU implementation for dynamic programming in image data processing. , 2016, , .		2
63	Collaborative Data Exploration Interfaces - From Participatory Sensing to Participatory Sensemaking. , 2015, , .		2
64	Cloud Based Toolbox for Image Analysis, Processing and Reconstruction Tasks. Advances in Experimental Medicine and Biology, 2015, 823, 191-205.	1.6	13
65	Distributed Collaborative Immersive Virtual Reality Framework for the Mining Industry. , 2015, , 39-48.		10
66	Conceptualising Inspiration Networks in Game Design. Transactions of the Digital Games Research Association, 2015, 2, .	0.6	2
67	Affective and Effective Visualisation: Communicating Science to Non-expert Users. , 2014, , .		15
68	Productivity Frameworks in Big Data Image Processing Computations - Creating Photographic Mosaics with Hadoop and Scalding. Procedia Computer Science, 2014, 29, 2306-2314.	2.0	8
69	Art and Chartjunk. , 2014, , .		4
70	Towards a Cognitive Approach to User-Centered Visualization Design and Evaluation. , 2014, , .		0
71	GPU-accelerated automatic identification of robust beam setups for proton and carbon-ion radiotherapy. Journal of Physics: Conference Series, 2014, 489, 012043.	0.4	3
72	Galaxy + Hadoop: Toward a Collaborative and Scalable Image Processing Toolbox in Cloud. Lecture Notes in Computer Science, 2014, , 339-351.	1.3	6

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73	Multi-users Real-Time Interaction with Bacterial Biofilm Images Using Augmented Reality. Lecture Notes in Computer Science, 2014, , 298-308.	1.3	2
74	Cloud Computing for High Performance Image Analysis on a National Infrastructure. , 2013, , .		1
75	A study of touchless versus touch-based interactions with bacterial biofilm images. , 2013, , .		4
76	High Precision Localization of Bacterium and Scientific Visualization. , 2013, , .		1
77	Biomedical image analysis and processing in clouds. AIP Conference Proceedings, 2013, , .	0.4	3
78	High precision localization of bacteria. , 2013, , .		0
79	Cloud based Services for Biomedical Image Analysis. , 2013, , .		0
80	Automating the quantification of membrane proteins under confocal microscopy. , 2012, , .		2
81	Applications of Heterogeneous Computing in Computational and Simulation Science. , 2011, , .		3
82	Applications of networked virtual reality for tele-operation and tele-assistance systems in the mining industry. , 2011, , .		5
83	Tele-operation of a mobile mining robot using a panoramic display: an exploration of operators sense of presence. , 2011, , .		11
84	Remote Operation of Mining Equipment Using Panoramic Display Systems: Exploring the Sense of Presence. The Ergonomics Open Journal, 2011, 4, 93-102.	1.8	4
85	Various aspects of camera settings and image processing in the calibration of thermo-chromic liquid crystals for accurate particle image thermometry measurements. Journal of Visualization, 2010, 13, 241-250.	1.8	6
86	Human-Computer Interaction Experiments Immersive Virtual Reality Applications for the Mining Industry. , 2010, , .		9
87	A numerical study of unsteady natural convection induced by iso-flux surface cooling in a reservoir model. International Journal of Heat and Mass Transfer, 2009, 52, 56-66.	4.8	30
88	An experimental study of unsteady natural convection in a reservoir model subject to periodic thermal forcing using combined PIV and PIT techniques. Experiments in Fluids, 2009, 47, 107-117.	2.4	20
89	Suppressing Rayleigh-Benard convection in a cube using a strong magnetic field Experimental heat transfer rate measurements and flow visualization. International Communications in Heat and Mass Transfer, 2009, 36, 97-102.	5.6	13
90	Enhancing natural convection in a cube using a strong magnetic field Experimental heat transfer rate measurements and flow visualization. International Communications in Heat and Mass Transfer, 2009, 36, 781-786.	5.6	35

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91	Scaling for unsteady thermo-magnetic convection boundary layer of paramagnetic fluids of Pr≥ 1 in micro-gravity conditions. International Journal of Heat and Fluid Flow, 2009, 30, 1157-1170.	2.4	18
92	Effects of a transverse, horizontal magnetic field on natural convection of a paramagnetic fluid in a cube. International Journal of Thermal Sciences, 2009, 48, 26-33.	4.9	33
93	Unsteady natural convection induced by diurnal temperature changes in a reservoir with slowly varying bottom topography. International Journal of Thermal Sciences, 2009, 48, 1932-1942.	4.9	19
94	An experimental study of unsteady natural convection in a reservoir model cooled from the water surface. Experimental Thermal and Fluid Science, 2008, 32, 844-856.	2.7	24
95	Influence of a horizontal magnetic field on the natural convection of paramagnetic fluid in a cube heated and cooled from two vertical side walls. International Journal of Thermal Sciences, 2008, 47, 668-679.	4.9	33
96	Numerical study of joint magnetisation and gravitational convection of air in a cubic enclosure with an inclined electric coil. Progress in Computational Fluid Dynamics, 2005, 5, 261.	0.2	8
97	Convection of air in a cubic enclosure with an electric coil inclined in general orientations. Fluid Dynamics Research, 2005, 36, 91-106.	1.3	14
98	Experimental and numerical analyses of magnetic convection of paramagnetic fluid in a cube heated and cooled from opposing verticals walls. International Journal of Thermal Sciences, 2005, 44, 933-943.	4.9	33
99	MAGNETIC AND GRAVITATIONAL CONVECTION OF AIR WITH A COIL INCLINED AROUND THE X AXIS. Numerical Heat Transfer; Part A: Applications, 2004, 46, 99-113.	2.1	19