

Arzu Coltekin

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,282
citations

331259

21
h-index

233125

45
g-index

56
all docs

56
docs citations

56
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	Rainbow Dash: Intuitiveness, Interpretability and Memorability of the Rainbow Color Scheme in Visualization. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 2722-2733.	2.9	16
2	Expert Insights for Designing Conversational User Interfaces as Virtual Assistants and Companions for Older Adults with Cognitive Impairments. Lecture Notes in Computer Science, 2022, , 23-38.	1.0	2
3	The Immersive Mental Rotations Test: Evaluating Spatial Ability in Virtual Reality. Frontiers in Virtual Reality, 2022, 3, .	2.5	13
4	SATSa: A Multi-Level Self-Attention Based Architecture for Visual Saliency Prediction. IEEE Access, 2022, 10, 20701-20713.	2.6	14
5	Gesture Interaction in Virtual Reality. Lecture Notes in Computer Science, 2021, , 151-160.	1.0	6
6	Using a Digital Neuro Signature to measure longitudinal individual-level change in Alzheimer's disease: the Alzoida large cohort study. Npj Digital Medicine, 2021, 4, 101.	5.7	23
7	Perspective switch and spatial knowledge acquisition: effects of age, mental rotation ability and visuospatial memory capacity on route learning in virtual environments with different levels of realism. Cartography and Geographic Information Science, 2020, 47, 14-27.	1.4	23
8	Fixing an illusion – an empirical assessment of correction methods for the terrain reversal effect in satellite images. International Journal of Digital Earth, 2020, 13, 1135-1150.	1.6	3
9	Extended Reality in Spatial Sciences: A Review of Research Challenges and Future Directions. ISPRS International Journal of Geo-Information, 2020, 9, 439.	1.4	128
10	An empirical evaluation of three-dimensional pie charts with individually extruded sectors in a geovisualization context. Information Visualization, 2020, 19, 183-206.	1.2	7
11	Geospatial Information Visualization and Extended Reality Displays. , 2020, , 229-277.		19
12	Where are we now? Re-visiting the Digital Earth through human-centered virtual and augmented reality geovisualization environments. International Journal of Digital Earth, 2019, 12, 119-122.	1.6	22
13	Designing Geovisual Analytics Environments and Displays with Humans in Mind. ISPRS International Journal of Geo-Information, 2019, 8, 572.	1.4	4
14	GeoGCD. , 2019, , .		3
15	Toward optimizing the design of virtual environments for route learning: empirically assessing the effects of changing levels of realism on memory. International Journal of Digital Earth, 2019, 12, 137-155.	1.6	46
16	Comparing the terrain reversal effect in satellite images and in shaded relief maps: an examination of the effects of color and texture on 3D shape perception from shading. International Journal of Digital Earth, 2019, 12, 442-459.	1.6	9
17	The effects of visual realism, spatial abilities, and competition on performance in map-based route learning in men. Cartography and Geographic Information Science, 2018, 45, 339-353.	1.4	18
18	Virtual geographic environments in socio-environmental modeling: a fancy distraction or a key to communication?. International Journal of Digital Earth, 2018, 11, 408-419.	1.6	25

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19	Virtual environments as memory training devices in navigational tasks for older adults. <i>Scientific Reports</i> , 2018, 8, 10809.	1.6	41
20	Measured and perceived visual complexity: a comparative study among three online map providers. <i>Cartography and Geographic Information Science</i> , 2018, 45, 238-254.	1.4	34
21	Geovisualization. <i>Geographic Information Science & Technology Body of Knowledge</i> , 2018, 2018, .	0.1	13
22	The effect of spatial distance on the discriminability of colors in maps. <i>Cartography and Geographic Information Science</i> , 2017, 44, 229-245.	1.4	40
23	An empirical evaluation of three elevation change symbolization methods along routes in bicycle maps. <i>Cartography and Geographic Information Science</i> , 2017, 44, 436-451.	1.4	12
24	An empirical assessment of the impact of the light direction on the relief inversion effect in shaded relief maps: NNW is better than NW. <i>Cartography and Geographic Information Science</i> , 2017, 44, 358-372.	1.4	28
25	Persistent challenges in geovisualization â€“ a community perspective. <i>International Journal of Cartography</i> , 2017, 3, 115-139.	0.2	42
26	User studies in cartography: opportunities for empirical research on interactive maps and visualizations. <i>International Journal of Cartography</i> , 2017, 3, 61-89.	0.2	96
27	Perceptual complexity of soil-landscape maps: a user evaluation of color organization in legend designs using eye tracking. <i>International Journal of Digital Earth</i> , 2017, 10, 560-581.	1.6	31
28	Development and evaluation of a specialized task taxonomy for spatial planning â€“ A map literacy experiment with topographic maps. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 127, 16-26.	4.9	13
29	Quantifying gaze and mouse interactions on spatial visual interfaces with a new movement analytics methodology. <i>PLoS ONE</i> , 2017, 12, e0181818.	1.1	15
30	Using coefficient K to distinguish ambient/focal visual attention during map viewing. <i>Journal of Eye Movement Research</i> , 2017, 10, .	0.5	15
31	An Empirical User Study for Measuring the Influence of Colour Distance and Font Size in Map Reading Using Eye Tracking. <i>Cartographic Journal</i> , 2016, 53, 202-212.	0.8	46
32	Not all anxious individuals get lost: Trait anxiety and mental rotation ability interact to explain performance in map-based route learning in men. <i>Neurobiology of Learning and Memory</i> , 2016, 132, 1-8.	1.0	34
33	Geospatial big data handling theory and methods: A review and research challenges. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2016, 115, 119-133.	4.9	333
34	From products to processes: Academic events to foster interdisciplinary and iterative dialogue in a changing climate. <i>Earth's Future</i> , 2015, 3, 289-297.	2.4	10
35	Applications of 3D City Models: State of the Art Review. <i>ISPRS International Journal of Geo-Information</i> , 2015, 4, 2842-2889.	1.4	492
36	Discriminating classes of sequential and qualitative colour schemes. <i>International Journal of Cartography</i> , 2015, 1, 62-78.	0.2	29

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37	Multi-methodological reconstruction of the lake level at Morgarten in the context of the history of the Swiss Confederation. <i>Holocene</i> , 2015, 25, 1727-1741.	0.9	1
38	Geovisual analytics: design and implementation. <i>International Journal of Digital Earth</i> , 2015, 8, 517-521.	1.6	2
39	Combining user logging with eye-tracking for interactive and dynamic applications. <i>Behavior Research Methods</i> , 2015, 47, 977-993.	2.3	30
40	Prevalence of the terrain reversal effect in satellite imagery. <i>International Journal of Digital Earth</i> , 2015, 8, 640-655.	1.6	17
41	Geovisual analytics: human factors. <i>International Journal of Digital Earth</i> , 2015, 8, 595-598.	1.6	6
42	The Next Generation of Atlas User Interfaces: A User Study with "Digital Natives". <i>Lecture Notes in Geoinformation and Cartography</i> , 2015, , 23-36.	0.5	16
43	Towards (Re)Constructing Narratives from Georeferenced Photographs through Visual Analytics. <i>Cartographic Journal</i> , 2014, 51, 152-165.	0.8	39
44	High Quality Geographic Services and Bandwidth Limitations. <i>Future Internet</i> , 2011, 3, 379-396.	2.4	20
45	An Approach to Modeling Spatial Perception for Geovisualization. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 21, 53-62.	0.5	10
46	Techniques for Highlighting Relief on Orthoimagery. <i>Procedia, Social and Behavioral Sciences</i> , 2011, 21, 346-352.	0.5	9
47	GPGPU computation and visualization of three-dimensional cellular automata. <i>Visual Computer</i> , 2011, 27, 67-81.	2.5	11
48	Survey of True 3D and Raster Level of Detail Support in GIS Software. <i>Lecture Notes in Geoinformation and Cartography</i> , 2011, , 43-65.	0.5	2
49	Exploring the efficiency of users' visual analytics strategies based on sequence analysis of eye movement recordings. <i>International Journal of Geographical Information Science</i> , 2010, 24, 1559-1575.	2.2	136
50	Visual Exploration of Eye Movement Data Using the Space-Time-Cube. <i>Lecture Notes in Computer Science</i> , 2010, , 295-309.	1.0	42
51	Evaluating the Effectiveness of Interactive Map Interface Designs: A Case Study Integrating Usability Metrics with Eye-Movement Analysis. <i>Cartography and Geographic Information Science</i> , 2009, 36, 5-17.	1.4	159
52	Space-variant image coding for stereoscopic media. , 2009, , .		7
53	Foveated gaze-contingent displays for peripheral LOD management, 3D visualization, and stereo imaging. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2007, 3, 1-18.	3.0	67
54	Stereo-foveation for anaglyph imaging. , 2005, 5664, 48.		2