

Enrico Vezzetti

List of Publications by Year in descending order

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92
papers

2,035
citations

218592

26
h-index

302012

39
g-index

93
all docs

93
docs citations

93
times ranked

1592
citing authors

#	ARTICLE	IF	CITATIONS
1	A design methodology for affective Virtual Reality. International Journal of Human Computer Studies, 2022, 162, 102791.	3.7	38
2	A deep learning framework for real-time 3D model registration in robot-assisted laparoscopic surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2022, 18, e2387.	1.2	15
3	Vision Transformer for femur fracture classification. Injury, 2022, 53, 2625-2634.	0.7	30
4	Augmented Reality: Mapping Methods and Tools for Enhancing the Human Role in Healthcare HMI. Applied Sciences (Switzerland), 2022, 12, 4295.	1.3	13
5	A new method for protein characterization and classification using geometrical features for 3D face analysis: An example of tubulin structures. Proteins: Structure, Function and Bioinformatics, 2021, 89, 53-67.	1.5	4
6	Building an Ecologically Valid Facial Expression Database "Behind the Scenes. Lecture Notes in Computer Science, 2021, , 599-616.	1.0	2
7	Malar augmentation with zygomatic osteotomy in orthognatic surgery: Bone and soft tissue changes threedimensional evaluation. Journal of Cranio-Maxillo-Facial Surgery, 2021, 49, 223-230.	0.7	7
8	Three-Dimensional Evaluation of Soft Tissue Malar Modifications after Zygomatic Valgization Osteotomy via Geometrical Descriptors. Journal of Personalized Medicine, 2021, 11, 205.	1.1	4
9	Validation of a TAM Extension in Agriculture: Exploring the Determinants of Acceptance of an e-Learning Platform. Applied Sciences (Switzerland), 2021, 11, 4672.	1.3	9
10	Real-time deep learning semantic segmentation during intra-operative surgery for 3D augmented reality assistance. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 1435-1445.	1.7	37
11	Assessment of Cognitive Student Engagement Using Heart Rate Data in Distance Learning during COVID-19. Education Sciences, 2021, 11, 540.	1.4	14
12	Understanding Abstraction in Deep CNN: An Application on Facial Emotion Recognition. Smart Innovation, Systems and Technologies, 2021, , 281-290.	0.5	5
13	Design Thinking as a Framework for the Design of a Sustainable Waste Sterilization System: The Case of Piedmont Region, Italy. Electronics (Switzerland), 2021, 10, 2665.	1.8	12
14	Evaluation of HMDs by QFD for Augmented Reality Applications in the Maxillofacial Surgery Domain. Applied Sciences (Switzerland), 2021, 11, 11053.	1.3	5
15	Development of an affective database made of interactive virtual environments. Scientific Reports, 2021, 11, 24108.	1.6	10
16	Can ADAS Distract Driver's Attention? An RGB-D Camera and Deep Learning-Based Analysis. Applied Sciences (Switzerland), 2021, 11, 11587.	1.3	4
17	Dynamic evaluation of THA components by Prosthesis Impingement Software (PIS). Acta Biomedica, 2021, 92, e2021295.	0.2	2
18	A methodology for supporting the design of a learning outcomes-based formative assessment: the engineering drawing case study. European Journal of Engineering Education, 2020, 45, 305-327.	1.5	5

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19	Non-linear-Optimization Using SQP for 3D Deformable Prostate Model Pose Estimation in Minimally Invasive Surgery. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 477-496.	0.5	5
20	Perspective Morphometric Criteria for Facial Beauty and Proportion Assessment. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8.	1.3	20
21	Hierarchical fracture classification of proximal femur X-Ray images using a multistage Deep Learning approach. <i>European Journal of Radiology</i> , 2020, 133, 109373.	1.2	45
22	Analysis of RGB-D camera technologies for supporting different facial usage scenarios. <i>Multimedia Tools and Applications</i> , 2020, 79, 29375-29398.	2.6	29
23	3D augmentation of the surgical video stream: Toward a modular approach. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 191, 105505.	2.6	12
24	<sc>Intraoperative</sc> surgery room management: A deep learning perspective. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2020, 16, 1-12.	1.2	12
25	X-Ray Bone Fracture Classification Using Deep Learning: A Baseline for Designing a Reliable Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1507.	1.3	32
26	Engagement Evaluation in a Virtual Learning Environment via Facial Expression Recognition and Self-Reports: A Preliminary Approach. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 314.	1.3	18
27	Enhancing Spatial Navigation in Robot-Assisted Surgery: An Application. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 95-105.	0.3	1
28	Questionnaires or Inner Feelings: Who Measures the Engagement Better?. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 609.	1.3	4
29	The Kano Model in the Development of Customer Oriented Products. <i>Studies in Systems, Decision and Control</i> , 2020, , 187-214.	0.8	0
30	Emotional Design and Virtual Reality in Product Lifecycle Management (PLM). <i>Smart Innovation, Systems and Technologies</i> , 2019, , 177-187.	0.5	0
31	Optimal marker set assessment for motion capture of 3D mimic facial movements. <i>Journal of Biomechanics</i> , 2019, 93, 86-93.	0.9	17
32	3D Approaches and Challenges in Facial Expression Recognition Algorithms—A Literature Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3904.	1.3	47
33	3D geometry-based face recognition in presence of eye and mouth occlusions. <i>International Journal on Interactive Design and Manufacturing</i> , 2019, 13, 1617-1635.	1.3	15
34	3D Facial Expression Recognition for Defining Users' Inner Requirements—An Emotional Design Case Study. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2218.	1.3	12
35	How to design a virtual reality experience that impacts the consumer engagement: the case of the virtual supermarket. <i>International Journal on Interactive Design and Manufacturing</i> , 2019, 13, 243-262.	1.3	46
36	Interactive virtual technologies in engineering education: Why not 360° videos?. <i>International Journal on Interactive Design and Manufacturing</i> , 2019, 13, 729-742.	1.3	45

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37	3D Soft-Tissue Prediction Methodologies for Orthognathic Surgeryâ€™A Literature Review. Applied Sciences (Switzerland), 2019, 9, 4550.	1.3	30
38	Big Data Analysis Techniques for Supporting Product Lifecycle Management in the Fashion Industries. Lecture Notes in Electrical Engineering, 2019, , 25-34.	0.3	1
39	Occlusion detection and restoration techniques for 3D face recognition: a literature review. Machine Vision and Applications, 2018, 29, 789-813.	1.7	44
40	3D geometry-based automatic landmark localization in presence of facial occlusions. Multimedia Tools and Applications, 2018, 77, 14177-14205.	2.6	49
41	3D Facial Action Units and Expression Recognition using a Crisp Logic. Computer-Aided Design and Applications, 2018, 16, 256-268.	0.4	16
42	Design and implementation of 3D Web-based interactive medical devices for educational purposes. International Journal on Interactive Design and Manufacturing, 2017, 11, 31-44.	1.3	18
43	Cleft lip pathology diagnosis and foetal landmark extraction via 3D geometrical analysis. International Journal on Interactive Design and Manufacturing, 2017, 11, 1-18.	1.3	25
44	An integrated approach to support the Requirement Management (RM) tool customization for a collaborative scenario. International Journal on Interactive Design and Manufacturing, 2017, 11, 191-204.	1.3	23
45	Kano qualitative vs quantitative approaches: An assessment framework for products attributes analysis. Computers in Industry, 2017, 86, 15-25.	5.7	90
46	Guidelines to design engineering education in the twenty-first century for supporting innovative product development. European Journal of Engineering Education, 2017, 42, 1344-1364.	1.5	23
47	New product development (NPD) of â€™family businessâ€™™ dealing in the luxury industry: evaluating maturity stage for implementing a PLM solution. International Journal of Fashion Design, Technology and Education, 2017, 10, 219-229.	0.9	17
48	How to practise Open Innovation today: what, where, how and why. Creative Industries Journal, 2017, 10, 258-291.	1.1	10
49	Three-dimensional face analysis via new geometrical descriptors. Lecture Notes in Mechanical Engineering, 2017, , 747-756.	0.3	4
50	Novel descriptors for geometrical 3D face analysis. Multimedia Tools and Applications, 2017, 76, 13805-13834.	2.6	57
51	Application of geometry to RGB images for facial landmark localisation - a preliminary approach. International Journal of Biometrics, 2016, 8, 216.	0.3	9
52	Facial Landmarks for Forensic Skull-Based 3D Face Reconstruction: A Literature Review. Lecture Notes in Computer Science, 2016, , 172-180.	1.0	3
53	Automatic 3D foetal face model extraction from ultrasonography through histogram processing. Journal of Medical Ultrasound, 2016, 24, 142-149.	0.2	8
54	Virtual interactive eâ€™learning application: An evaluation of the student satisfaction. Computer Applications in Engineering Education, 2015, 23, 72-91.	2.2	88

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55	Design of web-based interactive 3D concept maps: A preliminary study for an engineering drawing course. <i>Computer Applications in Engineering Education</i> , 2015, 23, 403-411.	2.2	10
56	Supporting product development in the textile industry through the use of a product lifecycle management approach: a preliminary set of guidelines. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 1493-1504.	1.5	23
57	Resistance spot welding process simulation for variational analysis on compliant assemblies. <i>Journal of Manufacturing Systems</i> , 2015, 37, 44-71.	7.6	8
58	Guidelines for the design of tyre sensor housings. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 75, 573-597.	1.5	1
59	EXPLOITING 3D ULTRASOUND FOR FETAL DIAGNOSTIC PURPOSE THROUGH FACIAL LANDMARKING. <i>Image Analysis and Stereology</i> , 2014, 33, 167.	0.4	11
60	Implementing a new approach for the design of an e-learning platform in engineering education. <i>Computer Applications in Engineering Education</i> , 2014, 22, 708-727.	2.2	55
61	Geometry-based 3D face morphology analysis: soft-tissue landmark formalization. <i>Multimedia Tools and Applications</i> , 2014, 68, 895-929.	2.6	30
62	A benchmarking framework for product lifecycle management (PLM) maturity models. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 899-918.	1.5	43
63	Study and development of a low cost "OptInertial" 3D scanner. <i>Precision Engineering</i> , 2014, 38, 261-269.	1.8	9
64	3D face recognition: An automatic strategy based on geometrical descriptors and landmarks. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1768-1776.	3.0	55
65	3D Landmarking in Multiexpression Face Analysis: A Preliminary Study on Eyebrows and Mouth. <i>Aesthetic Plastic Surgery</i> , 2014, 38, 796-811.	0.5	38
66	A methodology for supporting requirement management tools (RMT) design in the PLM scenario: An user-based strategy. <i>Computers in Industry</i> , 2014, 65, 1065-1075.	5.7	21
67	An integrated strategy for variational analysis of compliant plastic assemblies on shell elements. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 69, 875-890.	1.5	3
68	Development of an innovative low-cost MARG sensors alignment and distortion compensation methodology for 3D scanning applications. <i>Robotics and Autonomous Systems</i> , 2013, 61, 1710-1716.	3.0	22
69	3D human face soft tissues landmarking method: An advanced approach. <i>Computers in Industry</i> , 2013, 64, 1326-1354.	5.7	29
70	A knowledge reusing methodology in the product's lifecycle scenario: a semantic approach. <i>International Journal of Manufacturing Technology and Management</i> , 2012, 26, 149.	0.1	9
71	3D human face description: landmarks measures and geometrical features. <i>Image and Vision Computing</i> , 2012, 30, 698-712.	2.7	50
72	A pose-independent method for 3D face landmark formalization. <i>Computer Methods and Programs in Biomedicine</i> , 2012, 108, 1078-1096.	2.6	15

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73	Compliant assembly tolerance analysis: guidelines to formalize the resistance spot welding plasticity effects. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 61, 503-518.	1.5	19
74	Geometrical descriptors for human face morphological analysis and recognition. <i>Robotics and Autonomous Systems</i> , 2012, 60, 928-939.	3.0	35
75	A product lifecycle management methodology for supporting knowledge reuse in the consumer packaged goods domain. <i>CAD Computer Aided Design</i> , 2011, 43, 1902-1911.	1.4	44
76	A Morphological Methodology for Three-dimensional Human Face Soft-tissue Landmarks Extraction: A Preliminary Study. <i>Aesthetic Plastic Surgery</i> , 2011, 35, 289-302.	0.5	10
77	Model-based definition design in the product lifecycle management scenario. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 52, 1-14.	1.5	126
78	Study and development of morphological analysis guidelines for point cloud management: The "decisional cube". <i>CAD Computer Aided Design</i> , 2011, 43, 1074-1088.	1.4	2
79	Soft Tissue Diagnosis in Maxillofacial Surgery: A Preliminary Study on Three-Dimensional Face Geometrical Features-Based Analysis. <i>Aesthetic Plastic Surgery</i> , 2010, 34, 200-211.	0.5	25
80	Pitch function comparison methodology for supporting a smart 3D scanner selection. <i>Precision Engineering</i> , 2010, 34, 327-337.	1.8	4
81	Computer-aided morphological analysis for maxillo-facial diagnostic: a preliminary study. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2010, 63, 218-226.	0.5	22
82	Product lifecycle data sharing and visualisation: Web-based approaches. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 41, 613-630.	1.5	25
83	Computer aided inspection: design of customer-oriented benchmark for noncontact 3D scanner evaluation. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 41, 1140-1151.	1.5	18
84	Adaptive sampling plan design methodology for reverse engineering acquisition. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 42, 780-792.	1.5	13
85	Optimal pitch map generation for scanning pitch design in selective sampling. <i>Robotics and Autonomous Systems</i> , 2009, 57, 578-590.	3.0	2
86	New 3d segmentation approach for reverse engineering selective sampling acquisition. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 35, 900-907.	1.5	13
87	Spin casting characterization: An experimental approach for the definition of runners design guidelines. <i>Journal of Materials Processing Technology</i> , 2008, 196, 33-41.	3.1	1
88	Key performance indicators for PLM benefits evaluation: The Alcatel Alenia Space case study. <i>Computers in Industry</i> , 2008, 59, 833-841.	5.7	75
89	Reverse engineering: a selective sampling acquisition approach. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 33, 521-529.	1.5	9
90	Reverse engineering of free-form surfaces: A methodology for threshold definition in selective sampling. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 1079-1086.	6.2	21

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91	Reconstruction of facial morphology from laser scanned data. Part I: reliability of the technique. Dentomaxillofacial Radiology, 2006, 35, 158-164.	1.3	32
92	Numerical simulation of deposition process for a new 3DP printhead design. Journal of Materials Processing Technology, 2005, 161, 509-515.	3.1	16