

Enrico Vezzetti

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

2,035
citations

218592

26
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302012

39
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93
all docs

93
docs citations

93
times ranked

1592
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Model-based definition design in the product lifecycle management scenario. International Journal of Advanced Manufacturing Technology, 2011, 52, 1-14. | 1.5 | 126 |
| 2 | Kano qualitative vs quantitative approaches: An assessment framework for products attributes analysis. Computers in Industry, 2017, 86, 15-25. | 5.7 | 90 |
| 3 | Virtual interactive e-learning application: An evaluation of the student satisfaction. Computer Applications in Engineering Education, 2015, 23, 72-91. | 2.2 | 88 |
| 4 | Key performance indicators for PLM benefits evaluation: The Alcatel Alenia Space case study. Computers in Industry, 2008, 59, 833-841. | 5.7 | 75 |
| 5 | Novel descriptors for geometrical 3D face analysis. Multimedia Tools and Applications, 2017, 76, 13805-13834. | 2.6 | 57 |
| 6 | Implementing a new approach for the design of an e-learning platform in engineering education. Computer Applications in Engineering Education, 2014, 22, 708-727. | 2.2 | 55 |
| 7 | 3D face recognition: An automatic strategy based on geometrical descriptors and landmarks. Robotics and Autonomous Systems, 2014, 62, 1768-1776. | 3.0 | 55 |
| 8 | 3D human face description: landmarks measures and geometrical features. Image and Vision Computing, 2012, 30, 698-712. | 2.7 | 50 |
| 9 | 3D geometry-based automatic landmark localization in presence of facial occlusions. Multimedia Tools and Applications, 2018, 77, 14177-14205. | 2.6 | 49 |
| 10 | 3D Approaches and Challenges in Facial Expression Recognition Algorithms – A Literature Review. Applied Sciences (Switzerland), 2019, 9, 3904. | 1.3 | 47 |
| 11 | How to design a virtual reality experience that impacts the consumer engagement: the case of the virtual supermarket. International Journal on Interactive Design and Manufacturing, 2019, 13, 243-262. | 1.3 | 46 |
| 12 | Interactive virtual technologies in engineering education: Why not 360° videos?. International Journal on Interactive Design and Manufacturing, 2019, 13, 729-742. | 1.3 | 45 |
| 13 | Hierarchical fracture classification of proximal femur X-Ray images using a multistage Deep Learning approach. European Journal of Radiology, 2020, 133, 109373. | 1.2 | 45 |
| 14 | A product lifecycle management methodology for supporting knowledge reuse in the consumer packaged goods domain. CAD Computer Aided Design, 2011, 43, 1902-1911. | 1.4 | 44 |
| 15 | Occlusion detection and restoration techniques for 3D face recognition: a literature review. Machine Vision and Applications, 2018, 29, 789-813. | 1.7 | 44 |
| 16 | A benchmarking framework for product lifecycle management (PLM) maturity models. International Journal of Advanced Manufacturing Technology, 2014, 71, 899-918. | 1.5 | 43 |
| 17 | 3D Landmarking in Multiexpression Face Analysis: A Preliminary Study on Eyebrows and Mouth. Aesthetic Plastic Surgery, 2014, 38, 796-811. | 0.5 | 38 |
| 18 | A design methodology for affective Virtual Reality. International Journal of Human Computer Studies, 2022, 162, 102791. | 3.7 | 38 |

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|----|--|-----|-----------|
| 19 | Real-time deep learning semantic segmentation during intra-operative surgery for 3D augmented reality assistance. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1435-1445. | 1.7 | 37 |
| 20 | Geometrical descriptors for human face morphological analysis and recognition. <i>Robotics and Autonomous Systems</i> , 2012, 60, 928-939. | 3.0 | 35 |
| 21 | Reconstruction of facial morphology from laser scanned data. Part I: reliability of the technique. <i>Dentomaxillofacial Radiology</i> , 2006, 35, 158-164. | 1.3 | 32 |
| 22 | 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 |
| 23 | Geometry-based 3D face morphology analysis: soft-tissue landmark formalization. <i>Multimedia Tools and Applications</i> , 2014, 68, 895-929. | 2.6 | 30 |
| 24 | 3D Soft-Tissue Prediction Methodologies for Orthognathic Surgery – A Literature Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4550. | 1.3 | 30 |
| 25 | Vision Transformer for femur fracture classification. <i>Injury</i> , 2022, 53, 2625-2634. | 0.7 | 30 |
| 26 | 3D human face soft tissues landmarking method: An advanced approach. <i>Computers in Industry</i> , 2013, 64, 1326-1354. | 5.7 | 29 |
| 27 | 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 |
| 28 | Product lifecycle data sharing and visualisation: Web-based approaches. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 41, 613-630. | 1.5 | 25 |
| 29 | 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 |
| 30 | Cleft lip pathology diagnosis and foetal landmark extraction via 3D geometrical analysis. <i>International Journal on Interactive Design and Manufacturing</i> , 2017, 11, 1-18. | 1.3 | 25 |
| 31 | 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 |
| 32 | An integrated approach to support the Requirement Management (RM) tool customization for a collaborative scenario. <i>International Journal on Interactive Design and Manufacturing</i> , 2017, 11, 191-204. | 1.3 | 23 |
| 33 | Guidelines to design engineering education in the twenty-first century for supporting innovative product development. <i>European Journal of Engineering Education</i> , 2017, 42, 1344-1364. | 1.5 | 23 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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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|----|--|-----|-----------|
| 37 | A methodology for supporting requirement management tools (RMt) design in the PLM scenario: An user-based strategy. Computers in Industry, 2014, 65, 1065-1075. | 5.7 | 21 |
| 38 | Perspective Morphometric Criteria for Facial Beauty and Proportion Assessment. Applied Sciences (Switzerland), 2020, 10, 8. | 1.3 | 20 |
| 39 | Compliant assembly tolerance analysis: guidelines to formalize the resistance spot welding plasticity effects. International Journal of Advanced Manufacturing Technology, 2012, 61, 503-518. | 1.5 | 19 |
| 40 | Computer aided inspection: design of customer-oriented benchmark for noncontact 3D scanner evaluation. International Journal of Advanced Manufacturing Technology, 2009, 41, 1140-1151. | 1.5 | 18 |
| 41 | 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 |
| 42 | Engagement Evaluation in a Virtual Learning Environment via Facial Expression Recognition and Self-Reports: A Preliminary Approach. Applied Sciences (Switzerland), 2020, 10, 314. | 1.3 | 18 |
| 43 | New product development (NPD) of "family business"™ 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 |
| 44 | Optimal marker set assessment for motion capture of 3D mimic facial movements. Journal of Biomechanics, 2019, 93, 86-93. | 0.9 | 17 |
| 45 | Numerical simulation of deposition process for a new 3DP printhead design. Journal of Materials Processing Technology, 2005, 161, 509-515. | 3.1 | 16 |
| 46 | 3D Facial Action Units and Expression Recognition using a Crisp Logic. Computer-Aided Design and Applications, 2018, 16, 256-268. | 0.4 | 16 |
| 47 | A pose-independent method for 3D face landmark formalization. Computer Methods and Programs in Biomedicine, 2012, 108, 1078-1096. | 2.6 | 15 |
| 48 | 3D geometry-based face recognition in presence of eye and mouth occlusions. International Journal on Interactive Design and Manufacturing, 2019, 13, 1617-1635. | 1.3 | 15 |
| 49 | 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 |
| 50 | Assessment of Cognitive Student Engagement Using Heart Rate Data in Distance Learning during COVID-19. Education Sciences, 2021, 11, 540. | 1.4 | 14 |
| 51 | New 3d segmentation approach for reverse engineering selective sampling acquisition. International Journal of Advanced Manufacturing Technology, 2008, 35, 900-907. | 1.5 | 13 |
| 52 | Adaptive sampling plan design methodology for reverse engineering acquisition. International Journal of Advanced Manufacturing Technology, 2009, 42, 780-792. | 1.5 | 13 |
| 53 | Augmented Reality: Mapping Methods and Tools for Enhancing the Human Role in Healthcare HMI. Applied Sciences (Switzerland), 2022, 12, 4295. | 1.3 | 13 |
| 54 | 3D Facial Expression Recognition for Defining Users'™ Inner Requirements"™ An Emotional Design Case Study. Applied Sciences (Switzerland), 2019, 9, 2218. | 1.3 | 12 |

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|----|--|-----|-----------|
| 55 | 3D augmentation of the surgical video stream: Toward a modular approach. Computer Methods and Programs in Biomedicine, 2020, 191, 105505. | 2.6 | 12 |
| 56 | <scp>Intraoperative</scp> surgery room management: A deep learning perspective. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, 1-12. | 1.2 | 12 |
| 57 | 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 |
| 58 | EXPLOITING 3D ULTRASOUND FOR FETAL DIAGNOSTIC PURPOSE THROUGH FACIAL LANDMARKING. Image Analysis and Stereology, 2014, 33, 167. | 0.4 | 11 |
| 59 | A Morphological Methodology for Three-dimensional Human Face Soft-tissue Landmarks Extraction: A Preliminary Study. Aesthetic Plastic Surgery, 2011, 35, 289-302. | 0.5 | 10 |
| 60 | Design of web-based interactive 3D concept maps: A preliminary study for an engineering drawing course. Computer Applications in Engineering Education, 2015, 23, 403-411. | 2.2 | 10 |
| 61 | How to practise Open Innovation today: what, where, how and why. Creative Industries Journal, 2017, 10, 258-291. | 1.1 | 10 |
| 62 | Development of an affective database made of interactive virtual environments. Scientific Reports, 2021, 11, 24108. | 1.6 | 10 |
| 63 | Reverse engineering: a selective sampling acquisition approach. International Journal of Advanced Manufacturing Technology, 2007, 33, 521-529. | 1.5 | 9 |
| 64 | A knowledge reusing methodology in the product's lifecycle scenario: a semantic approach. International Journal of Manufacturing Technology and Management, 2012, 26, 149. | 0.1 | 9 |
| 65 | Study and development of a low cost "OptInertial" 3D scanner. Precision Engineering, 2014, 38, 261-269. | 1.8 | 9 |
| 66 | Application of geometry to RGB images for facial landmark localisation - a preliminary approach. International Journal of Biometrics, 2016, 8, 216. | 0.3 | 9 |
| 67 | 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 |
| 68 | Resistance spot welding process simulation for variational analysis on compliant assemblies. Journal of Manufacturing Systems, 2015, 37, 44-71. | 7.6 | 8 |
| 69 | Automatic 3D foetal face model extraction from ultrasonography through histogram processing. Journal of Medical Ultrasound, 2016, 24, 142-149. | 0.2 | 8 |
| 70 | 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 |
| 71 | 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 |
| 72 | Non-linear-Optimization Using SQP for 3D Deformable Prostate Model Pose Estimation in Minimally Invasive Surgery. Advances in Intelligent Systems and Computing, 2020, , 477-496. | 0.5 | 5 |

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| 73 | Understanding Abstraction in Deep CNN: An Application on Facial Emotion Recognition. Smart Innovation, Systems and Technologies, 2021, , 281-290. | 0.5 | 5 |
| 74 | Evaluation of HMDs by QFD for Augmented Reality Applications in the Maxillofacial Surgery Domain. Applied Sciences (Switzerland), 2021, 11, 11053. | 1.3 | 5 |
| 75 | Pitch function comparison methodology for supporting a smart 3D scanner selection. Precision Engineering, 2010, 34, 327-337. | 1.8 | 4 |
| 76 | Three-dimensional face analysis via new geometrical descriptors. Lecture Notes in Mechanical Engineering, 2017, , 747-756. | 0.3 | 4 |
| 77 | A new method for protein characterization and classification using geometrical features for <sc>3D</sc> face analysis: An example of tubulin structures. Proteins: Structure, Function and Bioinformatics, 2021, 89, 53-67. | 1.5 | 4 |
| 78 | 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 |
| 79 | Questionnaires or Inner Feelings: Who Measures the Engagement Better?. Applied Sciences (Switzerland), 2020, 10, 609. | 1.3 | 4 |
| 80 | Can ADAS Distract Driver's Attention? An RGB-D Camera and Deep Learning-Based Analysis. Applied Sciences (Switzerland), 2021, 11, 11587. | 1.3 | 4 |
| 81 | An integrated strategy for variational analysis of compliant plastic assemblies on shell elements. International Journal of Advanced Manufacturing Technology, 2013, 69, 875-890. | 1.5 | 3 |
| 82 | Facial Landmarks for Forensic Skull-Based 3D Face Reconstruction: A Literature Review. Lecture Notes in Computer Science, 2016, , 172-180. | 1.0 | 3 |
| 83 | Optimal pitch map generation for scanning pitch design in selective sampling. Robotics and Autonomous Systems, 2009, 57, 578-590. | 3.0 | 2 |
| 84 | Study and development of morphological analysis guidelines for point cloud management: The "decisional cube". CAD Computer Aided Design, 2011, 43, 1074-1088. | 1.4 | 2 |
| 85 | Building an Ecologically Valid Facial Expression Database " Behind the Scenes. Lecture Notes in Computer Science, 2021, , 599-616. | 1.0 | 2 |
| 86 | Dynamic evaluation of THA components by Prosthesis Impingement Software (PIS). Acta Biomedica, 2021, 92, e2021295. | 0.2 | 2 |
| 87 | Spin casting characterization: An experimental approach for the definition of runners design guidelines. Journal of Materials Processing Technology, 2008, 196, 33-41. | 3.1 | 1 |
| 88 | Guidelines for the design of tyre sensor housings. International Journal of Advanced Manufacturing Technology, 2014, 75, 573-597. | 1.5 | 1 |
| 89 | Enhancing Spatial Navigation in Robot-Assisted Surgery: An Application. Lecture Notes in Mechanical Engineering, 2020, , 95-105. | 0.3 | 1 |
| 90 | Big Data Analysis Techniques for Supporting Product Lifecycle Management in the Fashion Industries. Lecture Notes in Electrical Engineering, 2019, , 25-34. | 0.3 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Emotional Design and Virtual Reality in Product Lifecycle Management (PLM). Smart Innovation, Systems and Technologies, 2019, , 177-187. | 0.5 | 0 |
| 92 | The Kano Model in the Development of Customer Oriented Products. Studies in Systems, Decision and Control, 2020, , 187-214. | 0.8 | 0 |