

# Gabriele Colombo

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

805  
citations

643344

15  
h-index

685536

24  
g-index

98  
all docs

98  
docs citations

98  
times ranked

669  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of publicly funded collaborative projects in implementing open innovation. <i>Innovation: Management, Policy and Practice</i> , 2023, 25, 236-256.	2.6	4
2	A Workflow for the Numerical Evaluation of Hemodynamics in a Patient-Specific AAA After Stent-Graft Implantation. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 827-835.	0.3	0
3	Evaluation of segmentation accuracy and its impact on patient-specific CFD analysis. <i>International Journal on Interactive Design and Manufacturing</i> , 2022, 16, 545-556.	1.3	5
4	Additive Manufacturing of a Compliant Multimaterial Heart Model. <i>Computer-Aided Design and Applications</i> , 2022, 19, 1162-1170.	0.4	4
5	A learning workflow based on an integrated digital toolkit to support education in manufacturing system engineering. <i>Journal of Manufacturing Systems</i> , 2022, 63, 411-423.	7.6	5
6	Demonstration of Use of a Novel 3D Printed Simulator for Mitral Valve Transcatheter Edge-to-Edge Repair (TEER). <i>Materials</i> , 2022, 15, 4284.	1.3	1
7	Comparison of geometrical accuracy of active devices for 3D orthopaedic reconstructions. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 319-342.	1.5	9
8	A Virtual Reality Application for 3D Sketching in Conceptual Design. <i>Computer-Aided Design and Applications</i> , 2021, 19, 256-268.	0.4	2
9	High-quality chest CT segmentation to assess the impact of COVID-19 disease. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1737-1747.	1.7	4
10	Operative Workflow from CT to 3D Printing of the Heart: Opportunities and Challenges. <i>Bioengineering</i> , 2021, 8, 130.	1.6	12
11	Goalkeeper's Performances Assessed with Action Cameras Based Mocap System. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 259-266.	0.5	1
12	3D printing orthopedic scoliosis braces: a test comparing FDM with thermoforming. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 1707-1720.	1.5	31
13	A Virtual Design Process to Produce Scoliosis Braces by Additive Manufacturing. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 860-870.	0.3	1
14	Conceptual Modeling in Product Design within Virtual Reality Environments. <i>Computer-Aided Design and Applications</i> , 2020, 18, 383-398.	0.4	5
15	A virtual platform for lower limb prosthesis design and assessment. , 2019, , 733-746.		5
16	An Augmented Reality Approach to Visualize Biomedical Images. <i>Computer-Aided Design and Applications</i> , 2019, 16, 1195-1208.	0.4	7
17	Smart Maintenance: A Wearable Augmented Reality Application Integrated with CMMS to Minimize Unscheduled Downtime. <i>Computer-Aided Design and Applications</i> , 2019, 17, 740-751.	0.4	14
18	Virtual prototyping and physical experimentation of lower limb prosthesis. , 2019, , .		1

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19	Retopology and Simplification of Reality-based Models for Finite Element Analysis. Computer-Aided Design and Applications, 2019, 17, 525-546.	0.4	2
20	3D interactive environment for the design of medical devices. International Journal on Interactive Design and Manufacturing, 2018, 12, 699-715.	1.3	21
21	Extending VTK library to dynamically modify polygonal meshes in medical applications. Computer-Aided Design and Applications, 2018, 15, 203-210.	0.4	1
22	From Customer Requirements to Detailed Design: How Do Product Data Change?. , 2018, , .		0
23	Current and Future Manufacturing of Chest Orthoses, Considering the Case of Osteogenesis Imperfecta. , 2018, , .		3
24	Integration of Virtual Reality in a Knowledge-based Engineering System for Preliminary Configuration and Quotation of Assembly Lines. Computer-Aided Design and Applications, 2018, 16, 329-344.	0.4	11
25	The Role of Knowledge Based Engineering in Product Configuration. Lecture Notes in Mechanical Engineering, 2017, , 1141-1148.	0.3	2
26	Design and Additive Manufacturing of Lower Limb Prosthetic Socket. , 2017, , .		13
27	Data and Knowledge in IIoT-Based Maintenance Application. , 2017, , .		1
28	Grading abdominal aortic aneurysm rupture risk. Journal of Cardiovascular Surgery, 2017, 59, 87-94.	0.3	4
29	Automatic Below-Knee Prosthesis Socket Design: A Preliminary Approach. Lecture Notes in Computer Science, 2016, , 75-81.	1.0	6
30	A Method to Improve Prosthesis Leg Design Based on Pressure Analysis at the Socket-Residual Limb Interface. , 2016, , .		11
31	Assembly Line Balancing and Configuration: An Alternative Approach for Design and Planning. , 2016, , .		0
32	A knowledge-based framework for automated layout design in an industrial environment. International Journal of Computer Applications in Technology, 2016, 54, 171.	0.3	5
33	Development of a Manufacturing Ontology for Functionally Graded Materials. , 2016, , .		12
34	Mixed reality to design lower limb prosthesis. Computer-Aided Design and Applications, 2016, 13, 799-807.	0.4	15
35	Knowledge Based Engineering and Ontology Engineering Approaches for Product Development: Methods and Tools for Design Automation in Industrial Engineering. , 2016, , .		4
36	Virtual gait analysis tool to test lower limb prosthesis. , 2016, , .		0

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37	A methodology for virtual assessment of product ergonomics. International Journal of Computer Aided Engineering and Technology, 2016, 8, 125.	0.1	0
38	Optimized development: defining design rules through product optimization techniques. Computer-Aided Design and Applications, 2016, 13, 600-609.	0.4	4
39	A knowledge-based framework for automated layout design in an industrial environment. International Journal of Computer Applications in Technology, 2016, 54, 171.	0.3	0
40	An approach to integrate numerical simulation within KBE applications. International Journal of Product Development, 2015, 20, 107.	0.2	3
41	A Method to Design Custom-Fit Stent Graft for Abdominal Aortic Aneurism. , 2015, , .		1
42	Automatic Generation of Software Interfaces for Hand-Tracking Devices. , 2015, , .		1
43	Configuration Rules for Assembly Line Layouts: An Integrated Approach for the Preliminary Design. , 2015, , .		0
44	Spatial Augmented Reality and Simulations to Improve Abdominal Aortic Aneurysm Diagnosis and Monitoring. Computer-Aided Design and Applications, 2015, 12, 803-810.	0.4	6
45	SimplyNURBS: A Software Library to Model NURBS for Medical Applications. Computer-Aided Design and Applications, 2015, 12, 794-802.	0.4	6
46	MOTIVATION ORIENTATIONS IN INNOVATION CONTESTS: WHY PEOPLE PARTICIPATE. International Journal of Innovation Management, 2015, 19, 1550033.	0.7	12
47	Automatic Identification of Below-Knee Residuum Anatomical Zones. Lecture Notes in Computer Science, 2015, , 327-335.	1.0	1
48	Exploring the contribution of innovation intermediaries to the new product development (<scp>NPD</scp>) process: a typology and an empirical study. R and D Management, 2015, 45, 126-146.	3.0	55
49	Low Cost Hand-Tracking Devices to Design Customized Medical Devices. Lecture Notes in Computer Science, 2015, , 351-360.	1.0	3
50	Multi Objective Optimization and Knowledge Based Engineering to Improve Refrigerated Display Unit Design. , 2014, , .		0
51	Automatic configuration of a powertrain assembly line layout based on a KBE approach. , 2014, , .		1
52	Feasibility of an assembly line layout automatic configuration based on a KBE approach. , 2014, , .		4
53	A Preliminary Study of New Interaction Devices to Enhance Virtual Socket Design. , 2014, , .		4
54	Numerical Simulations and Experimental Data to Evaluate Residual Limb-Socket Interaction. , 2014, , .		2

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55	A study for neutral format to exchange and reuse engineering knowledge in KBE applications. , 2014, , .		8
56	Exchange of Knowledge in Customized Product Development Processes. Procedia CIRP, 2014, 21, 99-104.	1.0	9
57	FE Analysis of Contact between Residual Limb and Socket during Simulation of Amputee Motion. Computer-Aided Design and Applications, 2014, 11, 381-388.	0.4	3
58	Digital Human Modelling to Analyse Virtual Amputee's Interaction With the Prosthesis. , 2014, , .		1
59	Knowledge extraction to automate CFD analysis in abdominal aneurysm diagnosis and treatment. International Journal of Information Technology and Management, 2014, 13, 176.	0.1	2
60	A Low Cost Haptic Mouse for Prosthetic Socket Modeling. Lecture Notes in Computer Science, 2014, , 508-515.	1.0	1
61	Embedded CFD Simulation for Blood Flow. Computer-Aided Design and Applications, 2013, 10, 685-699.	0.4	3
62	Socket modelling assistant for prosthesis design. International Journal of Computer Aided Engineering and Technology, 2013, 5, 216.	0.1	3
63	Socket virtual design based on low cost hand tracking and haptic devices. , 2013, , .		10
64	A full virtual approach to design and test lower limb prosthesis. Virtual and Physical Prototyping, 2013, 8, 97-111.	5.3	21
65	A digital patient for computer-aided prosthesis design. Interface Focus, 2013, 3, 20120082.	1.5	33
66	Virtual Testing Laboratory for Lower Limb Prosthesis. Computer-Aided Design and Applications, 2013, 10, 671-683.	0.4	6
67	CROWDSOURCING INTERMEDIARIES AND PROBLEM TYPOLOGIES: AN EXPLORATIVE STUDY. International Journal of Innovation Management, 2013, 17, 1350005.	0.7	26
68	Ergonomic Design through Virtual Humans. Computer-Aided Design and Applications, 2013, 10, 745-755.	0.4	18
69	Investigating Inter-Industry Differences in the Implementation of Open Innovation. Series on Technology Management, 2013, , 323-355.	0.1	0
70	3D modelling and knowledge: tools to automate prosthesis development process. International Journal on Interactive Design and Manufacturing, 2012, 6, 41-53.	1.3	22
71	Motion Capture and Virtual Humans to Enhance Ergonomic Design and Validation of Refrigerated Display Units. , 2012, , .		1
72	How New Product Development Service Suppliers Exchange Knowledge in Open Innovation Processes. Series on Technology Management, 2012, , 499-548.	0.1	0

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73	Design Procedure and Rules to Configure Lower Limb Prosthesis. , 2011, , .		3
74	Physically Based Modelling and Simulation to Innovate Socket Design. Computer-Aided Design and Applications, 2011, 8, 617-631.	0.4	16
75	A Virtual Human for Lower Limb Prosthesis Set-Up. , 2011, , .		1
76	NEW PRODUCT DEVELOPMENT (NPD) SERVICE SUPPLIERS IN OPEN INNOVATION PRACTICES: PROCESSES AND ORGANIZATION FOR KNOWLEDGE EXCHANGE AND INTEGRATION. International Journal of Innovation Management, 2011, 15, 165-204.	0.7	31
77	Evolution in Mechanical Design Automation and Engineering Knowledge Management. , 2011, , 55-78.		7
78	Integration of virtual reality and haptics to carry out ergonomic tests on virtual control boards. International Journal of Product Development, 2010, 11, 47.	0.2	10
79	A new design paradigm for the development of custom-fit soft sockets for lower limb prostheses. Computers in Industry, 2010, 61, 513-523.	5.7	74
80	Ergonomic design of refrigerated display units. Virtual and Physical Prototyping, 2010, 5, 139-152.	5.3	4
81	Virtual Configuration of Lower Limb Prosthesis. , 2010, , .		2
82	Knowledge-based System for Guided Modeling of Sockets for Lower Limb Prostheses. Computer-Aided Design and Applications, 2010, 7, 723-737.	0.4	19
83	Knowledge Management and Customised 3D Modelling to Improve Prosthesis Design. , 2009, , .		3
84	Developing DA Applications in SMEs Industrial Context. International Federation for Information Processing, 2008, , 69-82.	0.4	10
85	About the integration between KBE and PLM. , 2007, , 131-136.		5
86	ICT Methodologies to Model and Simulate Parts of Human Body for Prosthesis Design. Lecture Notes in Computer Science, 2007, , 559-568.	1.0	1
87	Haptic technologies for the conceptual and validation phases of product design. Computers and Graphics, 2006, 30, 377-390.	1.4	47
88	Reverse engineering and rapid prototyping techniques to innovate prosthesis socket design. , 2006, 6056, 223.		9
89	Virtual humans and prototypes to evaluate ergonomics and safety. Journal of Engineering Design, 2005, 16, 195-203.	1.1	39
90	Integration of Virtual Reality in a Knowledge-based Engineering Approach for Preliminary Design and Quotation of Assembly Plants. , 0, , .		0

#	ARTICLE	IF	CITATIONS
91	An Augmented Reality Approach to Visualize Biomedical Images. , 0, , .		1