

1. Record Nr.	UNINA9910746950903321
Autore	Wagner Gerd
Titolo	Simulation and Modeling Methodologies, Technologies and Applications : 12th International Conference, SIMULTECH 2022, Lisbon, Portugal, July 14–16, 2022, Revised Selected Papers / / edited by Gerd Wagner, Frank Werner, Floriano De Rango
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031438240 3031438248
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (232 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 780
Altri autori (Persone)	WernerFrank RangoFloriano De
Disciplina	003.3
Soggetti	Computational intelligence Engineering mathematics Computational Intelligence Engineering Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Organization -- Contents -- Modelling and Design-for-Manufacturing of an Aerosol-on-Demand Jet-Printhead -- 1 Introduction -- 2 Theoretical Considerations for CFD Modelling of the AoD Jet-Printhead -- 3 Design-for-Manufacturing Considerations of the Printhead -- 4 Experimental Determination of Modelling Parameters -- 5 CFD Modelling -- 5.1 Geometry Model -- 5.2 Meshing -- 6 Results of CFD-Simulations -- 6.1 Modelling of Ink and Sheath Gas -- 6.2 Determination of the Operating Point -- 6.3 Steady-State and Transient Considerations -- 7 Manufacturing of the Printhead -- 8 Conclusions -- References -- Agent-Based Simulation Framework to Plan Dental Caries Prevention: Awareness Aspect -- 1 Introduction -- 2 Literature Review -- 3 Simulation Model -- 3.1 Hybrid Model -- 3.2 Model Verification -- 4 Simulation Scenarios and Results -- 4.1 What-If Scenarios -- 4.2 Results and Discussion -- 5

Sommario/riassunto

This present book includes a set of selected best extended papers from the 12th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2022), that was held in Lisbon, Portugal, from July 14 to 16, 2022. The conference brought together researchers, engineers and practitioners interested in methodologies and applications of modeling and simulation. New and innovative solutions are reported in this book. A selection was made after the conference, based also on the conference chairs assessment, reviewers' assessment, quality of presentation and audience interest, so that this book includes the extended and revised versions of the very best papers of the conference. New and innovative solutions are reported in this book.