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	Descrizione fisica	1 online resource (503 pages)
	Collana	Lecture notes in mechanical engineering
	Disciplina	670.42
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	Lingua di pubblicazione	Inglese
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	Nota di contenuto	Intro -- Contents -- About the Editors -- Synthesis and Investigation of Mechanical Behavior of Aluminum Oxide/Silicon Carbide Filled Bi-directional Woven E-glass Fiber Reinforcement Epoxy Polymer Composites -- 1 Introduction -- 1.1 Literature Review -- 2 Materials and Methodology -- 3 Results and Discussions -- 3.1 Tensile Properties -- 3.2 Flexural Properties -- 4 Results and Discussions -- References -- A Contemporary Review of Pushing/Pulling Strength at Different Handle Heights -- 1 Introduction -- 2 Materials and Methods -- 3 Observations and Recommendations -- 3.1 Year Wise Publication Trend -- 3.2 Field Wise Journal -- 3.3 Characteristics of the Included Studies -- 4 Conclusions -- References -- Development of an Optimal PID Controller for the 4-DOF Manipulator Using Genetic Algorithm -- 1 Introduction -- 2 Mathematical Formulation -- 3 Formulation of the Problem -- 3.1 Tuning of PID Controller by Using Genetic Algorithm -- 4 Results and Discussion -- 5 Conclusions -- References -- Assessing the Carbon Foot Print of an Ayurveda Medical Institute: A Case of National Institute of Ayurveda, Jaipur, India -- 1 Introduction -- 2 Materials and Methods -- 2.1 Assessment Methodologies of Carbon Footprint -- 2.2 System Boundary and Scope of Assessment -- 2.3 The Carbon Footprint Framework -- 2.4 Emission Factors -- 2.5 Data Collection -- 3 Result

Conditions -- 2.3 Design of Experiments (Simulation) and Regression Modeling -- 3 Results and Discussion -- 4 Conclusion -- References -- Tool Path Generation for Layer Specific Infill Density in Fused Filament Fabrication (FFF) -- 1 Introduction -- 2 Methodology -- 2.1 CAD Model to STL File Preparation -- 2.2 Tool Path Generation Using MATLAB -- 3 Feasibility Study -- 4 Conclusion -- References. Cost Minimization in a Scheduling Problem with Unrestricted and Restricted Common Due Date.

Sommario/riassunto	This book presents the select proceedings of the International Conference on Evolution in Manufacturing (ICEM 2020), and examines a range of areas including evolution in manufacturing, intelligent networks, bio-Inspired models and algorithms, internet-of-things, and cyber manufacturing. This book intends to provide a contribution to the domain of collaborative and intelligent networks and systems to fill the gap in theories and practical applications through suitable methods and solutions applicable to a wide range of instances. Various topics covered include broad range of research challenges in the fields of artificial intelligence and addressing current and future trends in industry 4.0 oriented scenario, data analytics and big data, operation and manufacturing management. The book will be a valuable reference for beginners, researchers and professionals interested in artificial intelligence in engineering and production management and allied fields.