

1. Record Nr.	UNINA9910984689603321
Autore	Altenbach Holm
Titolo	Lectures Notes on Advanced Structured Materials 3 // edited by Holm Altenbach, Leonhard Hitzler, Michael Johlitz, Markus Merkel, Andreas Öchsner
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
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Descrizione fisica	1 online resource (594 pages)
Collana	Advanced Structured Materials, , 1869-8441 ; ; 226
Altri autori (Persone)	HitzlerLeonhard JohlitzMichael MerkelMarkus OchsnerAndreas
Disciplina	531.7
Soggetti	Continuum mechanics Mechanics, Applied Solids Materials science - Data processing Continuum Mechanics Solid Mechanics Computational Materials Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Material Modelling of Selective Laser Sintered Polyamid 12 for the Deviatoric Stress State -- Temperature History in Laser Powder Bed Fusion: Analyzing the Effect of Inhomogeneous Heat Removal on the Microstructural State of Ti-6Al-4V -- Influence of Antiozonants on the Evolution of Crack Depth in Natural Rubber -- Using Continuous Relaxation and Intermittent Uniaxial Tests to Calibrate a Model for Thermal Ageing of Elastomers -- Elastomeric Engine Mounts - Numerical Studies for e-Mobility Applications -- Sorption Mechanisms of Oils and Fuels in Thermoplastic Polyurethanes -- Analysis of the Diffusion Behavior of Pyrolysis Oil from used Tires in Nitrile Butadiene Rubber -- Debonding on Demand of Adhesive Joints for the

Automotive Industry -- Mechanical Properties and inter-layer Bonding of thin-walled Structures in the Fused Filament Fabrication Process -- On the Visco-Elastic Properties of PA6-COC Polymer Blends: Experimental and Modeling -- Experimental and Numerical Study on the Temperature-Dependent Tensile Properties of AlSi10Mg Fabricated By Laser-Based Powder Bed Fusion -- Characterization of Auxetic Sheet Structures: Integrating Mechanical Testing with Nondestructive Evaluation Techniques -- Recycling of Old Binding Twine from Agriculture -- Advancing Calibration Technologies: A New Approach for Environmental Monitoring System Transmitter Calibration in Regulated Industries" -- Thermal Conductivity of Additive Manufactured Aluminum Alloys -- Influence of Mechanically Recycled Material on the Properties of Liquid Silicone Rubber -- Analysis of CO₂ Conversion in a Plasmapysis Reactor -- Introduction to Process Optimization in Injection Molding Using Simulation-Based AI Training -- In-Mold Coating: Innovative Coating of Polymer Components within the Injection Mold -- Application of the Two-Time-Scale Approach to the Constitutive Equations of High Temperature Steel -- Additive Manufacturing with Biodegradable Materials -- A continuum Thermomechanical Approach for Modelling Rate-Dependent material behavior under consideration of damage effects -- Strain-Induced Phase Transformation: An In-situ Study -- Statistical Size Effect in Cyclic Loading of NO30-15 -- Control Texture in PBF-LB Through Beam Shaping -- The influence of a Laser-Based Heat Treatment on the Distribution of Residual Stresses in Cantilevers Manufactured with PBF-LB -- Optimization of Energy Production and Storage Systems for Residential Buildings -- Optimization of Energy Production and Storage Systems for Residential Buildings -- Molding Simulation with Multipurpose CDF Software -- Creep-Fatigue deformation of the ferritic-martensitic steel P92 -- Steps Towards Microstructure-Based Modeling of the Influence of Hydrogen on the Fatigue Behavior of Duplex Steels -- Temperature Dependent Interdiffusion and Interlayer Mechanical Strength in Multi-Material Fused Filament Fabrication -- A System for Evaluating the State of Health of Traction Battery Systems -- Creep Mechanics - A Long History and Current Developments -- Plasticity Theory: Yield Conditions in The Invariant Space -- Materials for Additive Manufacturing - Working by Chance And Specifically Developed Alloys -- Heat Transfer - Modelling, Simulation, Measurement -- Viscoelastic Materials: From Experimental Characterisation to Continuum Mechanical Modelling, Implementation and Simulation'.

Sommario/riassunto

This book is designed to facilitate teaching and informal discussion in a supportive and friendly environment. The seminar provides a forum for postgraduate students to present their research results and train their presentation and discussion skills. Furthermore, it allows for extensive discussion of current research being conducted in the wider area of advanced structured materials. Doing so, it builds a wider postgraduate community and offers networking opportunities for early career researchers. In addition to focused lectures, the seminar provides specialized teaching/overview lectures from experienced senior academics. The 2023 Postgraduate Seminar entitled "Advanced Structured Materials: Development - Manufacturing - Characterization – Applications" was held from 20 till 24 May 2024 in Porto. The presented postgraduate lectures had a strong focus on polymer mechanics, composite materials, and additive manufacturing.

2. Record Nr.	UNINA9911021968903321
Autore	Saraswat Mukesh
Titolo	Proceedings of International Conference on Computational Intelligence : ICCI 2024 // edited by Mukesh Saraswat, Ritu Tiwari, Mario Pavone, Mukesh Zaveri
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9645-39-5
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (717 pages)
Collana	Algorithms for Intelligent Systems, , 2524-7573
Altri autori (Persone)	TiwariRitu PavoneMario ZaveriMukesh
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Machine learning Big data Telecommunication Computational Intelligence Artificial Intelligence Machine Learning Big Data Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Photovoltaic Substation Voltage Forecasting Optimization Using Modified Metaheuristic and Gated Recurrent Unit Networks -- Enhancing Neural Architecture Search: A Comparative Optimization Framework -- Deep Learning-Driven Blood Vessel Segmentation for Early Detection and Classification of Diabetic Retinopathy -- A Comprehensive Hybrid Metaheuristic Algorithm: Leveraging Coyote and Chimp Optimization for Optimal Performance -- Modifying Metaheuristic Optimizers for Hyperparameter Tuning of Machine Learning Models Tackling Malicious Node Detection in Blockchain Networks -- Innovative Skin Disease Diagnosis: A Hybrid Learning

Framework for Skin Cancer Detection -- Depth Estimation for Autonomous Vehicles with Enhanced Perception -- Hybridizing CNN with an LSTM Back-End for Univariate Rainfall Forecasting -- Enhancing ECG Abnormality Detection using Image Processing and Transfer Learning Approach -- Enhancing Transformer Efficiency through Active Learning and Knowledge Distillation -- Enhancing Dyslexia Classification using Feature Selection and Ensemble Learning Models on Eye-Tracking Data -- Classification of Arrhythmia Data and QRS Peak Detection for Feature Extraction using SVM Classifiers -- Effects of Environmental and Agronomic Factors on Crop Yield at Different Phenological Stages -- Classification Models for Predicting Accident Severity and the Impact of Factors Contributing to Severity -- A Weighted Deep Learning Approach to Identify Nucleic Acid-Binding Proteins -- Predictive Analytics in Financial Transactions: A Comparative Study for Customer Risk Assessment and Revenue Prediction -- Enhancing Renewable Energy Planning: Machine Learning-based Solar Radiation Prediction -- From Text to Treatment: Predicting Mental Health Needs through Language Analysis and Machine Learning -- A Systematic Review of Deep Learning Techniques for Enhancing Public Safety through Video Surveillance -- Particle Swarm Optimization Algorithm for Quasi-total Roman Domination -- Automatic Detection of Erythrocytes for Sick Cell Disease Identification Based on YOLOv8n Network -- Exploring the Effectiveness of Collaborative and Content-Based Filtering Techniques in Movie Recommendation Systems with Explainable AI -- Deep Learning-Based Classification of Lung, Kidney, and Breast Cancer Tumor Tissues using Whole Slide Images from the TCGA Database -- Foot Pressure and 3D Skeleton based Multimodal Approach for Pathological Gait Classification -- A Study on Generative Adversarial Network (GAN), Neural Style Transfer (NST) and Autoencoders -- MTL-SDCNN-Based Pre-and Post-Harvest Disease Prediction of Wheat and Paddy Crops -- Mining Association Rules among Biophysical Water Parameters using Improved Frequency Pattern Growth Algorithm -- Deep Learning Approach for Detection and Classification of Alzheimer'S Disease -- Advancements in Voice Pathology Detection: A Comprehensive Bibliometric and Visual Network Analysis -- Railway Track Crack Detection System -- Enhancing Security with a Custom Authenticator App and Comprehensive Zero Trust Architecture -- Super-Resolution of MRI Images using Deep Learning for Enhanced Medical Diagnostics using Altair Rapidminer Studio -- Exploring the Role of ICT Tools for Autism Spectrum Disorder Support: A Survey-Based Study -- Advanced Data Analytics for Organ Donation Tracking using AI and Blockchain -- Adaptive Trust Based Secure Routing Protocol for Wireless Adhoc Network -- Stochastic Particle Swarm Optimization with Bayesian Inference for Hyperparameter Optimization in CNN for Image Classification -- MultiBand Microstrip Patch Antenna for C-Band Applications -- Thoracic Disease Detection and Classification Using Chest X-rays: A Deep Learning Approach with ResNet-50 and DenseNet-121.

Sommario/riassunto

This book presents high-quality research papers presented at International Conference on Computational Intelligence (ICCI 2024) held at Sardar Vallabhbhai National Institute of Technology, Surat, India, during 24–26 December 2024. The topics covered are artificial intelligence, neural network, deep learning techniques, fuzzy theory and systems, rough sets, self-organizing maps, machine learning, chaotic systems, multi-agent systems, computational optimization ensemble classifiers, reinforcement learning, decision trees, support vector machines, hybrid learning, statistical learning, metaheuristics algorithms, machine vision, Internet of Things, image processing,

image segmentation, data clustering, sentiment analysis, big data, computer networks, signal processing, supply chain management, web and text mining, distributed systems, bioinformatics, embedded systems, expert system, forecasting, pattern recognition, planning and scheduling, time series analysis, human-computer interaction, web mining, natural language processing, multimedia systems, and quantum computing.
