

1. Record Nr.	UNINA9911049061203321
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Titolo	Advances in VLSI, Communication, and Signal Processing : Select Proceedings of the 6th International Conference, VCAS 2023 // edited by R. A. Mishra, V. K. Srivastava, Arvind Kumar, Kshirasagar Naik
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	981-9686-90-3
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (487 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1445
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Disciplina	621.382
Soggetti	Telecommunication Signal processing Internet of things Communications Engineering, Networks Signal, Speech and Image Processing Internet of Things
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Deep Learning Models for Automatic Image Segmentation of Low Velocity Impact Damage in CFRP Composites -- Discerning Microstructure of CMC Minicomposites from Micro-CT Imaging Data Using Machine Learning -- Effect of Fiber Angle on the Radial Stress in Hybrid Aluminum/Composite Tubes -- Development of Data-Driven Surrogate Models for Rapid Simulation of Fibre Reinforced Composites in Progressive Fracture Tests -- Development of Auxetic Composite Materials for Improved Impact Properties -- Bayesian Calibration and Uncertainty Quantification of Cohesive Zone Parameters at an Adhesively Bonded Textile and Fabric Interface -- Efficient Design of Laminate Composites Using Ensemble Kalman Inversion Method -- Using Neural Network to Improve Failure Predictions -- Reliability-Based Design and Certification of Hybrid Composites -- Integrated Process and Failure Analysis in Composites Using Multi-Fidelity Simulations and Machine Learning -- Optimized Design Workflow for

Patient-Customized Composite Orthotics -- Interlaminar Shear Strength of Carbon/Epoxy Laminates Containing Magnetically Aligned Nickel-Coated, Diazotized Carbon Nanotubes -- etc.

Sommario/riassunto

This book contains select peer-reviewed proceedings from the International Conference on VLSI, Communication, and Signal Processing (VCAS 2023). It focuses on the latest research in various domains of electronics and communication engineering, particularly microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book explores emerging applications of novel tools and techniques in image, video, and multimedia signal processing. It will be valuable to students, researchers, and professionals in electronics and communication.
