

1. Record Nr.	UNINA9911049093403321
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Titolo	Proceedings of the Eleventh International Conference on Mathematics and Computing : ICMC 2025, Volume 2 // edited by Debasis Giri, Indrakshi Ray, S. Ponnusamy, Rakesh M. Verma, James B D. Joshi
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	981-9663-51-2
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (677 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1404
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Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Computer networks - Security measures Data protection Computational Intelligence Artificial Intelligence Mobile and Network Security Data and Information Security
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	An Improved Collusion Resistant Certificateless Aggregate Signature Scheme for VANETs -- Hybrid Chaotic Image Encryption with Non-Linear Feedback Shift Register and Key-Sensitive S-Box -- A fusion 2D Logistic-cosine-sine Map based Secure Colour Image Communication -- The First and Second Kinds of Thabit Numbers Expressed as Sums, Differences or Products of Two Generalized Lucas Sequences -- Shadower-Shadowee Dynamics in Target Tracking: A Honey Bee Brain-Guided Control System -- A Comprehensive Study of Glioma Brain Tumor Detection with Combined Deep Learning Models LSTM and Bi-LSTM -- A Simplified Attribute-Based Signature Scheme Using RSA Algorithm -- CNN Based Response Adaptive Randomization for

Treatment Allotment Using Biomarker Information -- Deep Learning based Distinguisher of Stream Ciphers -- Malware Classification using Kolmogorov-Arnold Network -- Optimizing Authentication Path Computation time in the Merkle Signature Scheme for Post-Quantum Security -- ViT-RES: Attention Exploitation for Breast Cancer Image Classification -- Deep Learning based Multiclass Classification of Pneumonia, COVID-19, and Tuberculosis from Chest X-ray Images -- Deep Learning based Multiclass Classification of Pneumonia, COVID-19, and Tuberculosis from Chest X-ray Images -- Solving Percentage-based Financial Word Problems -- Local convergence analysis of a family of third order iterative methods using majorant function in Riemannian Manifold -- A Hybrid Improved Particle swarm optimization and Genetic algorithm for energy efficient task offloading in Industrial IoT -- Non-modal Linear Stability Analysis of Fluid Flow in a Rotating Channel Containing Porous Media -- A Robust Regression Estimation Technique Using Direct Weights Based on Median -- Game Theory-based Resource Allocation in Edge Environment -- Effect of interfacial imperfection on Love wave propagation in flexomagnetic composite -- AI-Optimized EV Battery Management with Solar and Swapping -- Ramanujan-Hardy-Littlewood Type Identity Involving Modified Bessel's Function -- Real Paley-Wiener theorem for multi-dimensional quadratic phase Fourier transform -- Simplified High-Performance Approach for Optic Disk Segmentation from Fundus Image -- Weighted-II least square algorithm and its consistency.

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#### Sommario/riassunto

This book features selected papers from the 11th International Conference on Mathematics and Computing (ICMC 2025), held at IIT Bhilai, India during January 09 – 11, 2025. It covers recent advances in the field of mathematics, statistics, and scientific computing. The book presents innovative work by leading academics, researchers, and experts from industry in mathematics, statistics, cryptography, network security, cyber security, machine learning, data analytics and blockchain technology in computer science and information technology. The book is divided into two volumes.

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