# Journal of Discrete Mathematical Sciences & Cryptography

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*Special Issue on*

## Advances in Discrete Mathematics and Secure Network Technologies (Part-C)

*Guest Editors*

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# FOREWORD

This special issue entitled "*Advances in Discrete Mathematics and Secure Network Technologies*" brings together a comprehensive collection of research papers on current trends in discrete mathematics, algebra, combinatorics, cryptography, coding theory, and secure network technologies. This special issue contains articles that address various aspects of modern discrete mathematics and its applications in cybersecurity. Special attention has been paid to graph theory, algebraic structures, finite fields, finite groups, polynomial rings, combinatorial designs, Boolean functions, hypergraphs, semigroups, and discrete optimization. At the same time, these mathematical tools are applied to various modern cryptographic schemes, including lightweight cryptography, elliptic- and hyperelliptic-curve cryptography, lattice- and isogeny-based cryptography, homomorphic cryptography, threshold cryptography, zero-knowledge proofs, secure multiparty computation, and post-quantum cryptography.

This special issue consists of selected research papers that were presented at the International Conference on Sustainable Computing and Management (SUSCOM-2026) organized by Sri Balaji College of Engineering & Technology, Jaipur, Rajasthan, India, from June 26-27, 2026. The conference received an overwhelming response with more than 760 research submissions, out of which 90 high-quality papers were carefully selected for publication in this special issue, which are being published in three parts : JDMSC 29#10-A, JDMSC 29#10-B and JDMSC 29#10-C, with 30 papers each, covering a wide range of innovative concepts. The conference provided a valuable forum for researchers, educators, and practitioners to exchange ideas and share recent developments in sustainable computing, mathematical sciences, cybersecurity, intelligent technologies, and interdisciplinary research.

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We would like to extend our sincere thanks to all the authors for their valuable contributions and to all the reviewers for their constructive feedback and comments. In particular, we would like to thank Prof. B. K. Dass, Chief Editor, for his consistent guidance and support throughout the publication process of this special issue of *Journal of Discrete Mathematical Sciences and Cryptography*, published by Taru Publications, New Delhi.

We believe that the research findings presented in this special issue will offer valuable insights to researchers, academics, and practitioners working in discrete mathematics, cryptography, coding theory, cybersecurity, and secure networking technologies.

*Guest Editors :*
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