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Special Issue on

**Recent Advances in Artificial Intelligence, Communication
and Electronic Systems (RAICE 2025)**

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FOREWORD

International Conference on “Recent Advances in Artificial Intelligence, Communication and Electronic Systems (RAICE 2025)” organised at Bharati Vidyapeeth’s College of Engineering, New Delhi, from 6th to 8th February 2025, is a platform to celebrate innovation and the transformative power of the technologies. Recent breakthroughs in these technologies have opened the doors to uncharted avenues for technological innovation within various industries. These breakthroughs are critical for solving global problems, accelerating the digital transformation of the world, and reshaping the future interaction between humans and technology.

The objective of this special issue is to present pioneering research that addresses the challenges and seizes the opportunities in artificial intelligence, next-generation communication systems, and electronics design. It emphasizes original studies in areas such as wireless technologies, the Internet of Things (IoT), optical communication, networking, devices, embedded systems, and the integration of electronic system design with Artificial Intelligence. It also brings to the fore interdisciplinary problem-solving approaches and applications that can cause tangible impacts across different fields.

We received over 300 research papers, and based on a vigorous peer-review procedure, 25 research papers were selected to be published in this special issue. These include innovative contributions of new knowledge creation and practice extensions in their domain.

The guest editors thank the authors for their valuable contributions and reviewers for their critical evaluation. Our special gratitude goes to Prof. B. K. Dass, Chief Editor, for his support and motivation for publication in the special issue of the esteemed "*Journal of Information and Optimization Sciences*" published by Taru Publications, New Delhi. We hope this work finds its place as a precursor to other related works and inspires further research and collaboration in these key areas.

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