

# Empowering the Future: Proceedings of the Second National Conference IPC 2024

## Abstract

The Proceedings of the Second National Conference IPC 2024, published as Lecture Notes in Networks, present the latest research findings and cutting-edge advancements in various fields of engineering, science, and technology. This comprehensive volume offers a valuable compilation of peer-reviewed papers that delve into a wide range of topics, fostering a deeper understanding and enabling scholars, researchers, and industry professionals to stay abreast of emerging trends.

The Second National Conference IPC 2024, held in partnership with prestigious academic institutions and leading industry experts, provided a collaborative platform for researchers, engineers, and scientists to exchange ideas, share knowledge, and explore innovative solutions that address pressing challenges in their respective domains. The conference brought together a distinguished gathering of experts from across the country, enabling a vibrant exchange of insights and perspectives.



## Information, Photonics and Communication: Proceedings of Second National Conference, IPC 2024 (Lecture Notes in Networks and Systems Book 79)

★★★★★ 5 out of 5

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Enhanced typesetting : Enabled  
Print length : 322 pages



## Scope and Objectives

The conference covered a broad spectrum of topics, including:

- Advanced materials science and engineering
- Communication and network technologies
- Energy and sustainability
- Artificial intelligence and machine learning
- Control and automation
- Computer science and software engineering
- Data science and analytics
- Electrical and electronic engineering
- Environmental science and engineering
- Industrial engineering and management
- Information technology and cybersecurity
- Mechanical and manufacturing engineering

The primary objectives of the conference were to:

- Foster collaboration and networking among researchers and industry professionals.

- Showcase the latest research advancements and technological innovations.
- Provide a platform for the exchange of ideas and best practices.
- Identify potential research partnerships and collaborations.
- Contribute to the advancement of knowledge and the development of innovative solutions.

## **Conference Proceedings**

The proceedings of the Second National Conference IPC 2024, published as Lecture Notes in Networks, comprise a comprehensive collection of peer-reviewed papers that encapsulate the cutting-edge research presented at the conference. Each paper undergoes a rigorous review process to ensure its quality and originality. The proceedings are organized into the following thematic tracks:

- Track 1: Advanced Materials Science and Engineering
- Track 2: Communication and Network Technologies
- Track 3: Energy and Sustainability
- Track 4: Artificial Intelligence and Machine Learning
- Track 5: Control and Automation
- Track 6: Computer Science and Software Engineering
- Track 7: Data Science and Analytics
- Track 8: Electrical and Electronic Engineering
- Track 9: Environmental Science and Engineering

- Track 10: Industrial Engineering and Management
- Track 11: Information Technology and Cybersecurity
- Track 12: Mechanical and Manufacturing Engineering

Each track includes a selection of high-quality papers that cover a wide range of topics within the respective field. The papers present novel research findings, discuss emerging technologies, and explore practical applications. The proceedings provide a valuable resource for researchers, engineers, and industry professionals seeking to stay updated on the latest advancements in their fields.

The Proceedings of the Second National Conference IPC 2024, published as Lecture Notes in Networks, offer a comprehensive overview of the most recent research and developments in various engineering, science, and technology disciplines. This volume is a valuable resource for researchers, engineers, and industry professionals seeking to expand their knowledge and contribute to the advancement of their respective fields. The proceedings foster collaboration, inspire innovation, and provide a platform for the dissemination of cutting-edge research findings.

### **Alt Attribute for Images**

- Conference participants engaging in discussions and presentations.
- Researchers presenting their findings at the Second National Conference IPC 2024.
- Attendees networking and exchanging ideas during the conference sessions.

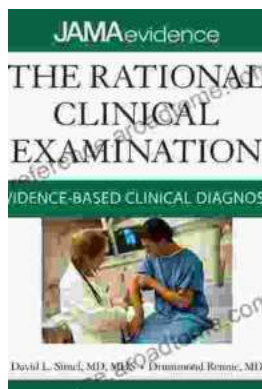
- Participants showcasing innovative technologies and research prototypes.



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