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1st International Conference on 6G for Future Wireless Networks (6GN)

IC6GFWN – 2026

Organized by

PG - Department of CS, BCA & IT
RAAK Arts and Science College
Perambai, Villupuram – 605110

February 13, 2026

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PREFACE

RAAK Arts and Science College (RASC), Perambai, Tamil Nadu is currently affiliated to Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu, India. The college was established in the year 2009. Till 2020, it was affiliated to Thiruvalluvar University, Vellore, Tamil Nadu, India. It started with five Under Graduate degree Programs and 180 students.

Today, the college is offering eleven Under Graduate degree Programs and seven Post Graduate Degree Programs. The college has been fostering graduates in Arts, Sciences, Commerce, Business Administration, Social Work, Information Technology and Computer Science. This has resulted in interdisciplinary environment that promotes cross disciplinary learning and research environment to the students. RASC is located in a green campus that has all the necessary infrastructure including laboratories, ICT classrooms, transport facilities etc.

CONFERENCE OVERVIEW

The International Conference on 6G for Future Wireless Networks – IC6GFWN-2026 is designed as a comprehensive academic and research-oriented platform that addresses the evolving landscape of next-generation wireless communication. As global communication systems rapidly transition beyond 5G, the need for intelligent, ultra-reliable, and high-capacity networks has become increasingly critical. IC6GFWN-2026 aims to explore this transformation by bringing together academicians, researchers, industry experts, and students to share knowledge, exchange ideas, and discuss future directions in wireless networking.

The conference focuses on cutting-edge themes such as 6G architecture and vision, artificial intelligence–driven communication systems, terahertz and millimeter-wave technologies, massive machine-type communication, edge and cloud integration, network security, green and sustainable wireless systems, and emerging applications including extended reality, smart cities, autonomous systems, and digital twins. Through keynote addresses, invited talks, and technical paper presentations, participants gain insights into both theoretical advancements and practical challenges shaping future wireless ecosystems.

IC6GFWN-2026 also emphasizes interdisciplinary research and industry–academia collaboration, encouraging participants to develop innovative solutions that bridge research and real-world implementation. By fostering interaction among experienced researchers and young scholars, the conference nurtures a strong research culture and promotes innovation. Overall, IC6GFWN-2026 aspires to contribute meaningfully to the global research community by shaping perspectives, inspiring collaboration, and supporting the development of robust and intelligent future wireless networks.

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GREETINGS

Er. B. Mohamed Farouk
Chairman
RAAK Group of Institutions

Greetings,

It gives me immense pleasure to extend my warm greetings on the occasion of this International Conference organized by the Department of Computer Science and Applications and Department of Information Technology on “6G for Future Wireless Networks”, scheduled on 13th February 2026.

This conference serves as an important platform for academicians, researchers, and industry professionals to share their innovative ideas, present original research, and discuss emerging trends in next-generation wireless communication. The papers compiled in this ISBN Conference Proceedings reflect excellence in research, technical advancement, and relevance to the rapidly evolving field of 6G technologies.

I appreciate the sincere efforts of the organizers, contributors, and participants in

making this academic initiative a success. I believe the conference discussions and this publication will motivate further research and innovation in future wireless networks.

Best Wishes,

Er. B. Mohamed Farouk

Chairman

RAAK Group of Institutions

GREETINGS

Prof. Dr.H.Anwer Basha
Principal
RAAK Group of Institutions

Greetings,

It gives me great pleasure to extend my warm greetings to all delegates, researchers, and participants of the International Conference organized by the Department of Computer Science and Applications and Department of Information Technology on “6G for Future Wireless Networks”, scheduled on 13th February 2026.

This conference provides a significant platform for academicians, industry experts, and young researchers to share their knowledge, present innovative ideas, and discuss emerging trends in next-generation wireless communication technologies. The papers included in this ISBN Conference Proceedings reflect scholarly rigor, technical excellence,

and forward-looking insights that are essential for advancing the field of 6G research.

I wholeheartedly applaud the organizers, contributors, and participants whose dedication has made this academic endeavor a success. I am certain that the insightful discussions and this publication will serve as a catalyst for future research and innovation, shaping the next generation of wireless networks.

Best Wishes,

Prof.Dr.H.Anwer Basha
Principal
RAAK Group of Institutions

GREETINGS

Prof. Dr.G.Senthilnathan

Vice Principal

RAAK Group of Institutions

Greetings,

It is my pleasure to extend warm greetings to all participants, researchers, and delegates of the International Conference organized by the Department of Computer Science and Applications and Department of Information Technology on “6G for Future Wireless Networks”, scheduled on 13th February 2026.

The conference offers an excellent platform for academicians, industry experts, and emerging researchers to exchange knowledge, present original research, and deliberate on recent advancements in next-generation wireless communication technologies. The papers compiled in the ISBN conference proceedings reflect scholarly rigor and technical

excellence, making a significant contribution to the advancement of 6G and future wireless networks.

I sincerely commend the organizers, contributors, and participants for their committed efforts in successfully organizing this academic event. I am confident that the conference deliberations and the resulting publication will stimulate continued research and innovative developments in the field of wireless networks

Best Wishes,

Prof. Dr.G.Senthilnathan

Vice Principal

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KEYNOTE SPEAKERS

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A COMPREHENSIVE REVIEW OF GASTROINTESTINAL CANCER: FROM PATHOGENESIS TO COMPUTATIONAL DIAGNOSIS

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Abstract

Gastrointestinal (GI) cancers, which include a broad spectrum of malignant conditions affecting the digestive system and related organs, continue to rank among the leading causes of cancer-related mortality globally. Although early identification and precise diagnosis are crucial for improving patient survival, clinical detection remains challenging, as these malignancies are frequently diagnosed at advanced stages. This paper consolidates current knowledge on the mechanisms underlying GI cancer development, reviews both established and emerging screening and diagnostic techniques, and critically examines the role of computational approaches including artificial intelligence, machine learning, and deep learning in enhancing diagnostic accuracy. In addition, the relative effectiveness of various screening modalities is systematically compared, and strategic recommendations are proposed for integrating advanced computational technologies to achieve more efficient and reliable GI cancer detection.

Keywords: GI Cancer, Endoscopic, Screening Methods, Machine Learning.

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