



**5th International Conference on
Mobile Radio Communications & 5G Networks, (MRCN-2024)**

Organized By:

**University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)**

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



5th International Conference

on

Mobile Radio Communications & 5G Networks

Sponsored by Springer



Springer

Organized By:-

***Department of Electronics & Communication
Engineering (ECE) University Institute of
Engineering & Technology Kurukshetra University,
Kurukshetra –136119***



Dr. Vijay Kumar Garg
Co-Coordinator,
MRCN-2024

Dr. Nikhil Kumar Marriwala
Organizing Secretary,
Coordinator, MRCN-2024

Dr. Sunil Dhingra
Convener- MRCN-2024
Director, UIET, KUK



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



ACKNOWLEDGEMENTS

We would like to express our deep sense of gratitude to the Patron & Chief Guest of the MRCN-2024 **Prof. (Dr.) Som Nath Sachdeva**, Honorable Vice-Chancellor, Kurukshetra University, Kurukshetra, Guest of Honour **Dr. Anil Vohra**, Dean Colleges KUK, Convener & General Chair of the conference **Prof. (Dr.) Sunil Dhingra** respected Director UIET, KUK, and Dean Engineering and Technology Kurukshetra University, Kurukshetra, our Keynote Speaker of the day **Prof. Dinesh Kant Kumar**, Danfoss Global R&D, Denmark, our Special Guest and Keynote Speaker of the day **Prof. (Dr.) Rangaraj M. Rangayyan**, Professor Emeritus of Electrical and Computer Engineering, University of Calgary, Alberta, Canada, Editorial Board Member, MRCN-2024 **Dr. Vinod Kumar Shukla**, Head of Academics- School of Engineering Architecture Interior Design at Amity University, Dubai, UAE, Keynote Speaker of the day **Prof. S. Jagannatham**, Missouri University of Science and Technology, USA, Keynote Speaker of the day “**Prof. Shivakumar Mathapathi**”, Adjunct Faculty- Santa Clara University and UC San Diego Extension, Co-Founder of Dew Mobility USA and Xtrans Solutions (P) Limited India, **Dr. Nikhil Kumar Marriwala**, Principal General Chair & Organizing Secretary, MRCN-2024, **Dr. Vijay Kumar Garg**, General Chair, MRCN-2024 for giving their valuable time and imparting knowledge to the participants.

We would like to thank all the faculty members, research scholars and students for participating in the course. We would also like to thank all the faculty members of the organizing committee and technical and non-technical staff of Electronics and Communication Engineering (ECE) Department for their kind support throughout the course. Last but not least we would like to thank Springer for sponsoring this international conference.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



5th INTERNATIONAL CONFERENCE ON MOBILE RADIO COMMUNICATIONS & 5G NETWORKS, (MRCN-2024)

23rd-24th August, 2024

Organized By:

UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY
KURUKSHETRA UNIVERSITY, KURUKSHETRA, HARYANA, INDIA
('A++' Grade NAAC Accredited)

Sponsored by: Springer



Springer



**Presidential
Address:**
**Prof. (Dr.) Som
Nath Sachdeva**
Vice-Chancellor
Kurukshetra University,
Kurukshetra
Patron,
MRCN-2024

**Prof. (Dr.) Sunil
Dhingra**

Director UIET, KUK
& Dean Engineering
and Technology, KUK
Convener,
MRCN-2024



**Inaugural Ceremony (Online)
(23rd August 2024, 10:00AM onwards)**

**Keynote speakers/ Convenor/Organizing Secretary
at MRCN-2024**



Keynote Speaker:
**Dr. Rangaraj
M. Rangayyan**
University of Calgary,
Calgary, Alberta,
Canada



Keynote Speaker:
**Prof. (Dr.) Dinesh
Kant Kumar**
(Editor MRCN-2024)
RMIT University,
Melbourne



Keynote Speaker:
**Prof. S.
Jagannathan**
Missouri University of
Science and
Technology, USA



Keynote Speaker:
**Dr. Utkarsh
Shrivastava**
Western Michigan
University,
Kalamazoo, USA



Keynote Speaker:
**Dr. Dinesh
Kumar,**
Danfoss Global
R&D Centre,
Denmark



Keynote Speaker:
**Prof.
Shivakumar
Mathapathi**
Santa Clara University
and UC San Diego
Extension, USA



Editor MRCN-2024:
**Dr. Vinod Kumar
Shukla**
Amity University Dubai,
Dubai International
Academic City, Dubai,



Keynote Speaker:
**Dr. Nikhil Kumar
Marriwala**
(Organizing Secretary
& Editor MRCN-2024)
UIET, Kurukshetra
University, Kurukshetra



Editor MRCN-2024:
**Prof. (Dr.)
Shruti Jain**
Jaypee University of
Information Technology,
Waknaghat, H.P



**Co-Coordinator
MRCN-2024:**
**Dr. Vijay Kumar
Garg**
UIET, Kurukshetra
University,
Kurukshetra



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:

University Institute of Engineering and Technology, Kurukshehra University,
Kurukshehra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



5th International Conference on
Mobile Radio Communications & 5G Networks, (MRCN-2024)
Organized By:
UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY
KURUKSHETRA UNIVERSITY, KURUKSHETRA, HARYANA, INDIA



Prof.(Dr.)Som Nath Sachdeva,
Vice-Chancellor Kurukshehra
University, Kurukshehra
Patron MRCN-2024



Prof. (Dr.) Sunil Dhingra,
Dean Engineering and
Technology & Director
UIET, KUK
Convener MRCN-2024

Session Chairs: MRCN-2024



Prof. (Dr.) Amit
Kant Pandit,
SECE Shri Mata
Vaishno Devi
University, Katra



Prof.(Dr.) Munish
Vashishath, J.C.
Bose University,
UST, YMCA,
Faridabad



Dr. Satish Kumar,
Chief Scientist,
Centre of Excellence
on Intelligent
Sensors and
Systems,
CSIR-CSIO, Chandigarh



Dr. Nikhil
Kumar Marriwala,
Dept. of ECE,
UIET, KUK



Prof.(Dr.) Yudhvir
Singh, Dept.
of CSE, UIET,
MDU, Rohtak



Prof.(Dr.) Manoj
Kumar, Dept.
of ECE, NIT,
Delhi



Dr. Sanjeev
Kumar, Principal
Scientist, CSIO-CSIR,
Chandigarh



Prof.(Dr.) Sharvan
Kumar Pahuja, Dr
B.R. Ambedkar, NIT,
Jalandhar



Dr. Vijay Kumar
Garg, Dept. of
EE, UIET, KUK



Prof. (Dr.) Sanjeev
Dhull, Dept. of
ECE, GJU, Hisar



Prof. (Dr.) Rahul
Rishi, Dept. of
CSE, UIET, MDU



Session Chairs: MRCN-2024



Prof.(Dr.) Yajvender
Pal Verma, UIET,
Punjab University,
Chandigarh



Prof.(Dr.) Sandeep
Singh Gill, NITTTR,
Chandigarh



Prof.(Dr.) Ajay Kumar
Bansal, School of
Engineering and
Technology, Central
University of Haryana



Prof.(Dr.) Surender
Kumar Grewal,
DCRUST Murthal,
Sonepat



Prof.(Dr.) Shruti
Jain, Associate
Dean (Innovation),
JUIT, Wagnaghat



Prof. (Dr.) Nithesh
Naik, MIT, Manipal
Academy of Higher
Education, Manipal



Dr. Rohit
Tanwar,
UPES,
Dehradun



Prof.(Dr.) Rakesh
Kumar, Associate
Director, Chandigarh
University, Punjab



Prof.(Dr.)
Priyanka,
DCRUST,
Murthal



Prof. (Dr.) Ashok
Kumar, Dean
Academic
Affairs, MIET,
Jammu



Dr. Ayush Dogra,
Assistant Director
-Research, Chitkara
University, Punjab



Prof.(Dr.) Vinay
Bhatia, HOD,
Dept. ECE,
CGC, Landran



Prof.(Dr.) Kalpna
Guleria, Chitkara
University, Punjab



Dr. Princy Randhawa,
Dept. of Mechatronics,
Manipal University,
Jaipur



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:

University Institute of Engineering and Technology, Kurukshehra University,
Kurukshehra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



5th INTERNATIONAL CONFERENCE ON MOBILE RADIO COMMUNICATIONS & 5G NETWORKS MRCN- 2024 (Virtual Mode) ORGANISED BY - DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG. UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY KURUKSHETRA UNIVERSITY, KURUKSHETRA, HARYANA ('A++' Grade NAAC Accredited)



PATRON :

- Prof. Som Nath Sachdeva
Vice-Chancellor, KUK

CONVENER AND GENERAL CHAIR :

- Prof. (Dr.) Sunil Dhingra
Director, UIET, KUK

PRINCIPAL GENERAL CHAIR AND ORGANIZING SECRETARY:

- Dr. Nikhil Kumar Marriwala
Asst. Prof. ECE Dept. UIET, KUK

GENERAL CHAIR :

- Prof. Dinesh Kant Kumar
(Biomedical Engineering), RMIT University, Melbourne, Australia
- Dr. Shruti Jain Associate Dean (innovation), JUIT, Solan, H.P
- Dr. Vinod Kumar Shukla
Amity University Dubai, Dubai, UAE
- Dr. Vijay Kumar Garg
Asst. Prof. EE Dept., UIET, KUK

PROGRAM CHAIRS:

- Prof. (Dr.) Baldev Setia
Director, Punjab Engineering College
- Prof. (Dr.) Anil Vohra
Electronic Science Dept. KUK
- Prof. (Dr.) M.V Kartikeyan IIT, Tirupati
- Prof. (Dr.) Carol Fung
Virginia Commonwealth University, USA
- Prof. S. Jagannathan Missouri University of Science and Technology, USA
- Joanna Rosak-Szyrocka Department of Production Engineering and Safety Faculty of Management Czestochowa University Of Technology, Poland
- Prof. (Dr.) Shantanu Choudhary
Director, IIT Jodhpur
- Prof.(Dr.) Dharmender Singh IIT Roorkee
- Prof. Shivakumar Mathapathi
Adjunct Faculty- Santa Clara University and UC San Diego Extension Co Founder of Dew Mobility, USA
- Prof. (Dr.) Manak Gupta
Tennessee Technological University, USA
- Prof. (Dr.) Utkarsh Shrivastava
Western Michigan University, USA
- Dr. Dinesh Kumar
Danfoss Global R&D Center, Denmark
- Dr. Satish Kumar, Chief Scientist, CSIR-CSIO, Chandigarh

TRACK CHAIRS :

- Prof. (Dr.) Rajeev Tripathi,
Director, MNIT Allahabad
- Prof. (Dr.) Nag Bhushan, IIT Allahabad
- Prof. (Dr.) Anupam Shukla,
Director, IIIT Pune
- Prof. (Dr.) Yogesh Kumar,
Vice Chancellor, Delhi University
- Prof.(Dr.) Brahmjit Singh, NIT Kurukshehra
- Prof. (Dr.) Sandeep Sanchet,
SRM University Kanchipuram
- Dr. Aditya Kumar Singh Pundir, Arya College of Engineering & I.T. Jaipur, India
- Dr. Nithesh Nayak, MAHE, Karnataka
- Dr. Rakesh kumar, Associate Director Chandigarh university, Visakhapatnam
- Dr. Meenu Gupta, Associate Director, Chandigarh university
- Dr. P. William, Department of Information Technology, Sanjivani College of Engineering, SPPU, Pune
- Dr. A. Ahilan, PSN College of Engineering and Technology, Tirunelveli, Tamil Nādu

ORGANIZING COMMITTEE:

- Dr. Ram Avtar
- Dr. Sanjeev Ahuja
- Dr. Monish Gupta
- Dr. Reeta Devi
- Dr. Puneet Bansal
- Dr. Deepak Sood
- Dr. Priyanka Jangra
- Dr. Deepti Choudhary
- Mr. Nafeesh Ahmed
- Mr. Krishan Gopal
- Mr. Rahul Gupta
- Dr. Shefali Dhingra
- Dr. Shikha Bhardwaj
- Ms. Priya
- Ms. Ekta
- Mr. Krishna Pandey
- Ms. Kirti Saini
- Mrs. Shivani Chauhan
- Mr. Abhishek
- Mr. Archit Sharma

About the Conference

This conference will provide a platform and aid to the researches involved in designing systems that will permit the societal acceptance of ambient intelligence. The overall goal of this conference is to present the latest snapshot of the ongoing research as well as to shed further light on future directions in this space. The aim of this conference is to serve for researchers, educators and developers working in the area of upcoming technologies in the field of Cellular systems, 2G/2.5G/3G/4G/5G and beyond LTE, WiMAX, WMAN, etc. Authors are invited to submit papers presenting novel technical studies as well as position and vision papers comprising hypothetical/speculative scenarios. UIET, KUK has successfully organized 05 International Conferences in last 3 years in association with Springer namely MRCN-2020, MRCN-2021, MRCN-2022, ETBS-2021, SCIS-2020.

The Conference will focus on

- Cellular Systems, 2G/2.5G/3G/4G/5G
- LTE, WiMAX, WMAN, and other Emerging Broadband Wireless Networks
- Small cell and Femtocell Networks
- Vehicular Radio Networks
- Cognitive Radio Networks
- Green Wireless Networks
- Standardization activities of Emerging Wireless Technology
- Artificial Intelligence
- RF Communication
- Optimization Techniques
- Software-Defined Wireless Networks
- Power Management and Energy Conservation Techniques
- Wireless Edge Computing, Fog Computing, and Cloud Computing
- Inter-Networking of Wireless Heterogeneous and Multi-tier Networks
- Machine-to-Machine Communications
- Pervasive and Wearable Computing and Networking
- Wireless Adhoc-Networks
- Signal Processing
- Electric Vehicles

Call for Special Sessions

Proposals for organizing special sessions are also invited from academicians and industry experts from highly-reputed organizations. The proposals should clearly indicate:
A. Session Title B. Name(s), designation, and affiliation of session chair(s) and session-committee members C. Aims and Objective [200 words] D. Topics of Interest [120 words] E. Expected number of articles to receive F. List of name, affiliation, email of 50 target researchers who can submit articles to this session. Special session proposals along with a short curriculum vitae of the session chair(s) can be mailed to mrcnuiet2024@kuk.ac.in. After review by an external expert panel, decision regarding the special session will be intimated within 14 days from submission of the proposal.

Paper Submission

Authors are encouraged to submit their papers using E-mail (mrcnuiet2024@kuk.ac.in). All the papers will undergo plagiarism check followed by peer review by at least three independent referees from the panel of international reviewers. All the accepted papers will be published in LNNS Springer, which is "Lecture Notes in Networks and Systems" (<https://www.springer.com/series/15179>) Indexed by SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago. Authors of accepted papers will need to sign a copyright form and at-least one author must present the paper at the conference. All the accepted and presented papers will be published in the Springer Nature series, Mobile Radio Communications & 5G Network. The organizers are using standard plagiarism checking tools to scrutinize the paper and paper will be rejected if found with significant plagiarism.

Registration Fee

CATEGORY	AMOUNT
• Indian Authors (Academician)	₹ 4000
• Industry Authors	₹ 4000
• Foreign Authors	\$ 100
• Student Author (Student/Research Scholar)	₹ 3000
• Indian Participant/Attendee	₹ 1000
• Foreign Participant/Attendee	\$ 50

Important Dates

- Last Date of Paper Submission: 25 June 2024
- Paper Acceptance Notification : 30 July 2024
- Last Date for receiving CRP and Author Registration : 10 August 2024
- Date of Conference : 23-24 August 2024

Contact -
Dr. Nikhil Marriwala (Organizing Secretary) :
MRCN-2024
+91 9416668482, +91 9729999805
Email : mrcnuiet2024@kuk.ac.in



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Contents

- Conference Highlights
- Introduction
- MRCN Conference



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Conference Highlights

1. Participation and Presentations:

MRCN-2024 saw an overwhelming response, with 374 research papers submitted. After a rigorous peer-review process, 60 papers were selected for presentation, maintaining a competitive acceptance rate of 16.04%. The topics covered ranged from theoretical advancements in mobile communications to practical applications of 5G technologies in various industries.

2. Publication in Springer Series:

The conference proceedings will be published in the prestigious "Lecture Notes in Networks and Systems" series by Springer, ensuring global visibility and access to the high-quality research presented.

3. Networking and Collaboration Opportunities:

The virtual format of the conference facilitated networking among researchers, academicians, and industry professionals, promoting future collaborations in the field of mobile radio communications and 5G networks.

4. Celebration of National Space Day:

The event coincided with National Space Day, marked by a congratulatory message from the Vice Chancellor, Prof. (Dr.) Som Nath Sachdeva, celebrating India's achievements in space exploration.

5. Objectives of the Conference:

- To understand the latest development and technology advancement in the mobile communication & 5G networks
- To provide the solutions for some of key challenges in 5G technology.
- To enhance scientific and engineering knowledge among researchers and engineers.
- To find area of improvement in the existing research done by the participants.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer

Introduction

As we know, Mobile Communication is dramatically changing the way the world works by making the machines that are programmed to think like humans and mimic their actions. It could prove disastrous for us if we overlook this magnificent feat of technology. The influence of Mobile Communication technologies on society and human beings has been strong. The number of applications of Mobile Communication technology is increasing, and the Mobile Communication research field is expanding. The applications of Mobile Communication include Artificial Intelligence, Wireless Communication Systems, and Data Transfer Routing etc. In this direction, U.I.E.T intends to organize Springer Sponsored 5th International Conference on "Mobile Radio Communication & 5G Networks" from 23rd-24th August 2024.

The idea of this Conference is to make the participants aware of the Mobile Radio Communication and 5G Network field. This will, in turn, improve the quality of the teaching which will motivate the participants to take up the challenges in this interdisciplinary field.

Day I (23.08.2024)

Inaugural Session:

The 5th International Conference on Mobile Radio Communications & 5G Networks (MRCN-2024) commenced with a grand inaugural session, highlighting the collaborative efforts and dedication of UIET, Kurukshetra University, and various eminent academicians and researchers worldwide. The session began at 10:00 AM and was conducted online via Google Meet.

The program commenced on 23rd August 2024 on Google Meet app with an introductory and motivational speech from following dignitaries:

1. **Prof. (Dr.) Som Nath Sachdeva, Patron MRCN-2024**, Chief Guest of the day Honorable Vice-Chancellor, Kurukshetra University, Kurukshetra
2. **Prof. (Dr.) Anil Vohra**, Guest of Honour, Dean Colleges, KUK
3. **Prof. (Dr.) Sunil Dhingra, Convener- MRCN-2024**, Director UIET, KUK, Dean Engineering and Technology, Kurukshetra University, Kurukshetra
4. **Prof. (Dr.) Rangaraj M. Rangayyan**, Special Guest & Keynote Speaker, Professor, University of Calgary, Alberta, Canada,
5. **Dr. Vinod Kumar Shukla**, Editor MRCN 2024, Head of Academics- School of Engineering Architecture Interior Design at Amity University, Dubai, UAE.
6. **Prof. Dinesh Kant Kumar**, Keynote Speaker, RMIT University Melbourne.
7. **Prof. S. Jagannatham**, Keynote Speaker, Missouri University of Science and Technology, USA
8. **Prof. Shivakumar Mathapathi**, Keynote Speaker, Adjunct Faculty- Santa Clara University and UC San Diego Extension, Co Founder of Dew Mobility USA and Xtrans Solutions (P) Limited India
9. **Dr. Nikhil Marriwala, Organizing Secretary & Coordinator MRCN-2024, Keynote Speaker**, UIET, KUK.
10. **Dr. Vijay Garg**, Co-Coordinator, MRCN-2024, UIET, KUK.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer

Welcome Address & Introduction

The conference was inaugurated by **Prof. (Dr.) Som Nath Sachdeva, Honorable Vice-Chancellor, Kurukshetra University, Kurukshetra also the Patorn** of MRCN-2024. Welcome Address and Introduction to the 5th International Conference on Mobile Radio Communications & 5G Networks (MRCN-2024) was give by Dr. Nikhil Kumar Marriwala. Dr. Marriwala welcomed all participants, speakers, and guests, providing an overview of the conference's objectives, scope, and significance in advancing the field of mobile radio communications and 5G networks. Dr. Marriwala, the Organizing Secretary and Coordinator, MRCN-2024 set a positive and engaging tone for the event. He warmly welcomed all the distinguished guests, keynote speakers, session chairs, researchers, and participants joining virtually from around the world. Dr. Marriwala provided an overview of the conference's objectives, emphasizing the critical role of MRCN-2024 in facilitating the exchange of innovative ideas and research findings in the fields of mobile radio communications and 5G networks. He highlighted the importance of these technologies in shaping the future of global communication, fostering smart cities, and enhancing connectivity. His address also underscored the commitment of Kurukshetra University and UIET to advancing research and collaboration, positioning the conference as a key platform for knowledge sharing and academic growth. Dr. Marriwala's remarks set the stage for an inspiring two-day event filled with insightful discussions, presentations, and networking opportunities.



Dr. Nikhil Kumar Marriwala, Organizing Secretary of the conference, welcoming the chief guest along with other dignitaries



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

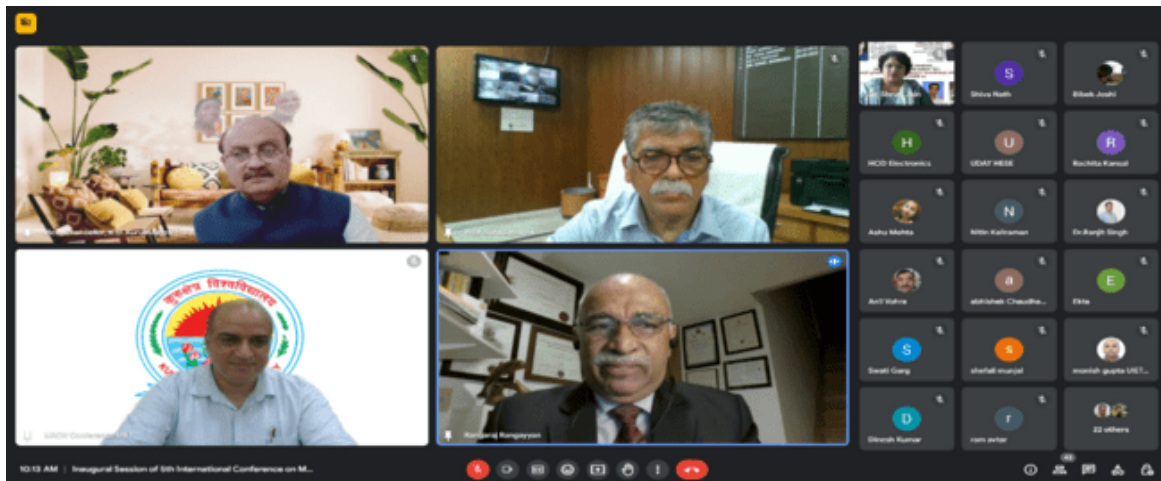
Sponsored by: Springer



Address by Prof. (Dr.) Sunil Dhingra

During the inaugural session of the 5th International Conference on Mobile Radio Communications & 5G Networks (MRCN-2024), Prof. (Dr.) Sunil Dhingra, Convener of the conference, Dean of Engineering and Technology, and Director of UIET, Kurukshetra University, delivered a welcoming and insightful address. Prof. Dhingra began by expressing his deep appreciation for the participation of distinguished speakers, researchers, and industry experts from across the globe. He highlighted the significance of the conference theme, emphasizing the transformative impact of mobile radio communications and 5G networks on modern society. Prof. Dhingra underscored the critical role of academic institutions like UIET in advancing research and innovation in these cutting-edge fields, fostering knowledge exchange, and building collaborations that bridge the gap between academia and industry.

He also took pride in outlining the achievements of UIET, mentioning how the institution has consistently been at the forefront of technological advancements and has successfully organized numerous international conferences and faculty development programs. Prof. Dhingra conveyed his confidence that MRCN-2024 would not only facilitate the dissemination of groundbreaking research but also inspire new ideas and partnerships that would contribute significantly to the development of 5G technologies. His address set a collaborative and forward-looking tone for the event, encouraging all participants to engage deeply in the conference activities and contribute to the collective effort of shaping the future of mobile communications.



Prof. (Dr.) Sunil Dhingra Convener of MRCN-2024, addressing the gathering

Special Guest Address by Prof. (Dr.) Rangaraj M. Rangayyan

Prof. Rangayyan, Professor Emeritus of Electrical and Computer Engineering at the



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:
University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer

University of Calgary, Alberta, Canada, shared his insights on recent advancements in mobile communications and the importance of international collaboration for technological growth.



Prof. (Dr.) Rangaraj M. Rangayyan Special Guest, MRCN-2024 addressing the gathering

Address by Dr. Vinod Kumar Shukla

As the Head of Academics at Amity University Dubai and Editorial Board Member of MRCN-2024, Dr. Shukla discussed the global perspective on education and research in engineering, emphasizing the need for innovation and interdisciplinary collaboration.



Prof. (Dr.) Vinod Kumar Shukla Special Guest, Editor MRCN-2024 addressing the gathering



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer

Keynote Addresses by Esteemed Speakers

Several distinguished keynote speakers addressed the audience, sharing their research findings and expertise:

Prof. S. Jagannatham, Missouri University of Science and Technology, USA, discussed cutting-edge developments in 5G networks and their implications for future communication systems.

Dr. Dinesh Kumar, Danfoss Global R&D, Denmark, provided insights into the role of 5G in industrial applications and sustainable development.

Prof. Shivakumar Mathapathi, Adjunct Faculty at UC San Diego, and President of Xtrans Solutions LLC, California, USA, highlighted the intersection of 5G and IoT, focusing on innovative solutions for smart cities and healthcare.



Addresses by Esteemed Speakers Dr. Dinesh Kumar & Prof. Shivakumar Mathapathi at the Inaugural Session of MRCN-2024



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Address by Guest of Honour Prof. (Dr.) Anil Vohra

Prof. Vohra, Dean of Colleges at Kurukshetra University, underscored the conference's role in advancing academic research and enhancing the university's reputation on the global stage.



Dr. Anil Vohra, Chief Guest, Dean Research and Development, highlighted upon the use of Mobile Radio Communication Technology in different areas.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

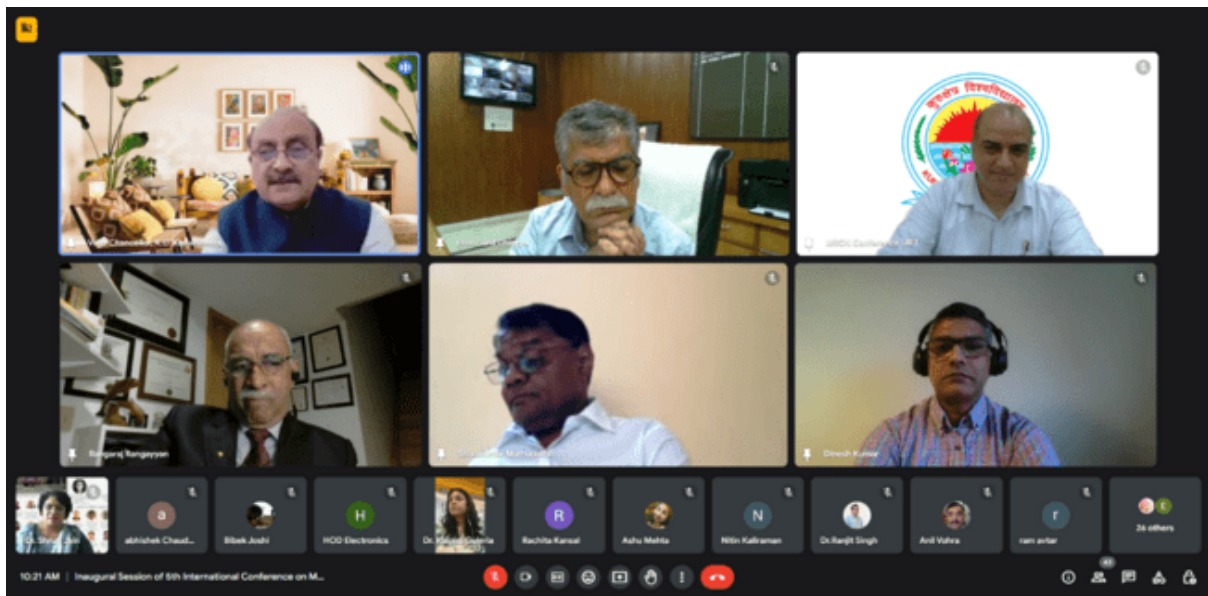
Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer

Address by Chief Guest Prof. (Dr.) Som Nath Sachdeva

During the inaugural session of the 5th International Conference on Mobile Radio Communications & 5G Networks (MRCN-2024), the Chief Guest, Prof. (Dr.) Som Nath Sachdeva, Honourable Vice-Chancellor of Kurukshetra University, delivered a profound and inspiring address. Prof. Sachdeva began his speech by expressing his pride in hosting a prestigious event that brought together eminent researchers, academicians, and industry leaders from around the globe. He emphasized the significance of mobile radio communications and 5G networks in shaping the future of technology and underscored the pivotal role of universities in spearheading research and innovation in these fields.



Prof. (Dr.) Som Nath Sachdeva Honorable Vice-Chancellor, KUK and Patron-MRCN-2024 addressing the august gathering at the inaugural event

Prof. Sachdeva highlighted the growing importance of 5G technology, not just in enhancing communication speeds and network reliability but also in enabling a wide range of applications that could revolutionize industries such as healthcare, education, manufacturing, and transportation. He pointed out how 5G can significantly contribute to the development of smart cities, IoT (Internet of Things) ecosystems, and autonomous systems, thus driving economic growth and improving the quality of life. Furthermore, Prof. Sachdeva stressed the importance of international collaborations, cross-disciplinary research, and partnerships between academia and industry to leverage the full potential of 5G technologies.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

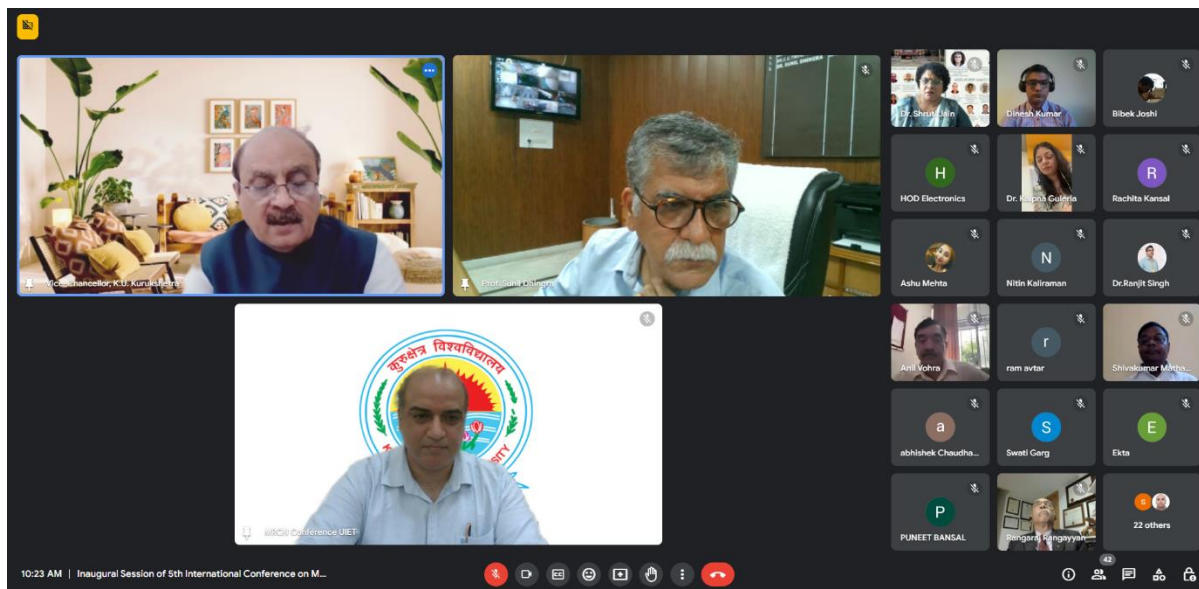
Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Springer



Prof. (Dr.) Som Nath Sachdeva Honorable Vice-Chancellor, KUK and Patron- MRCN-2024 addressing the august gathering at the inaugural event

He also took the opportunity to commemorate National Space Day, congratulating the participants and the Indian scientific community on the nation's remarkable achievements in space exploration. Prof. Sachdeva celebrated the recent advancements made by Indian scientists and engineers, which not only brought pride to the nation but also positioned India as a key player in the global space race. He connected these achievements to the theme of the conference, illustrating how innovations in mobile radio communications and 5G networks could further propel space research and exploration efforts, paving the way for new discoveries and technological advancements.

In concluding his address, Prof. Sachdeva expressed his hope that the conference would serve as a platform for fruitful discussions, exchange of ideas, and the creation of lasting partnerships that would lead to breakthrough innovations in the field. He commended the organizing committee, led by Dr. Nikhil Kumar Marriwala and Prof. (Dr.) Sunil Dhingra, for their dedication and hard work in making MRCN-2024 a reality. Prof. Sachdeva's address set an inspiring tone for the conference, encouraging all participants to actively engage in the sessions, share their insights, and contribute to the advancement of mobile radio communications and 5G technology.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Vote of Thanks

The inaugural session concluded with a vote of thanks by Dr. Vijay Kumar Garg, Co-Convenor of MRCN-2024, expressing gratitude to all speakers, guests, and participants for their contributions.



Dr. Vijay Garg is delivering vote of thank

Keynote Address by Prof. (Dr.) Rangaraj M. Rangayyan

Following the inaugural session, Prof. Rangayyan delivered a keynote address coordinated by Dr. Reeta Devi, focusing on recent research advancements in the field of electrical and computer engineering and their application to mobile communication systems. Prof. (Dr.) Rangaraj M. Rangayyan”, Professor Emeritus of Electrical and Computer Engineering, University of Calgary, Alberta, Canada delivered Keynote address on “*Computer-Aided Analysis of Biomedical Signals and Images*”



Prof. (Dr.) Rangaraj M. Rangayyan, Professor, University of Calgary, Alberta, Canada discussing the applications of computational procedures to detect diseases for CAD



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Keynote address by Prof. S. Jagannatham

First session was chaired by **Prof. (Dr.) Surender Kumar Grewal, Prof. (Dr.) Shruti Jain** in which 6 papers are presented with paper Id MRCN24-115, 116, 123, 124, 135, 251. B. Muthu Kumar was the first participant who discussed A Novel Secure Communication for WSN using Energy Efficient Cluster with HECC. Then Ms. Neelima Enhancement of Link Prediction Methodology in Online Social Network. So total six participant was in this first session.



Prof. (Dr.) Surender Kumar Grewal, Prof. (Dr.) Shruti Jain chairing the session

Second session was chaired by **Prof. (Dr.) Sharvan Kumar Pahuja, Dr B.R. Ambedkar, NIT, Jalandhar and Dr. Rohit Tanwar, UPES, Dehradun** in which 6 papers were presented with Paper Id-MRCN24-171, 177, 180, 206, 207 & 209. In this session so many thematic topics were discussed by the participants.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

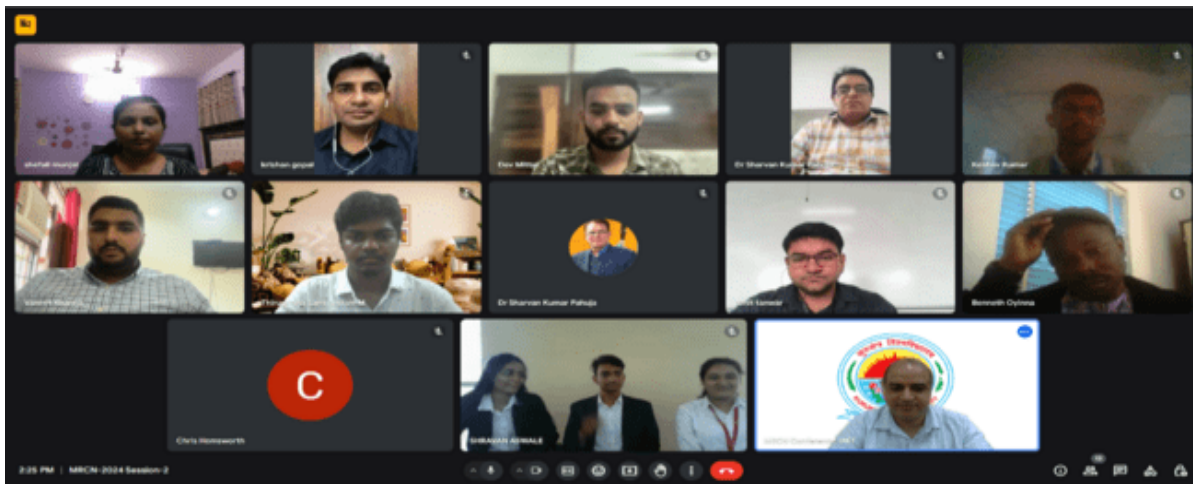


Organized By:
University Institute of Engineering and Technology, Kurukshehra University,
Kurukshehra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Prof. (Dr.) Sharvan Kumar Pahuja and Dr. Rohit Tanwar sessioning the chair

Third session was chaired by Dr. Satish Kumar, Chief Scientist, Centre of Excellence on Intelligent Sensors and Systems, CSIR-CSIO, Chandigarh, Prof. (Dr.) Ajay Kumar Bansal, School of Engineering and Technology, Central University of Haryana & Dr. Nikhil Kumar Marriwala, Dept. of ECE, UIET, KUK in which 6 papers are presented with paper MRCN24-210, 211, 215, 241, 247, 489.



Dr. Satish Kumar, Prof. (Dr.) Ajay Kumar Bansal and Dr. Nikhil Kumar Marriwala chairing the session



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)



Organized By:
University Institute of Engineering and Technology, Kurukshehra University,
Kurukshehra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer

Day II (24-08-2024)

On the second day, keynote address was given by “**Prof. Shivakumar Mathapathi**”, Adjunct Faculty- Santa Clara University and UC San Diego Extension, Co-Founder of Dew Mobility USA and Xtrans Solutions (P) Limited India. He discussed the role of Artificial Intelligence in today's world. This session was coordinated by Dr. Priyanka Jangra & in parallel session was chaired by **Prof. (Dr.) Munish Vashishath**, **Prof. (Dr.) Priyanka**, **Prof. (Dr.) Nithesh Naik** in which 6 papers were presented with Id MRCN24-389, 411, 412, 414, 415, 420.



Keynote address was given by Prof. Shivakumar Mathapathi



Prof. (Dr.) Munish Vashishath, Prof. (Dr.) Priyanka, Prof. (Dr.) Nithesh Naik sessioning the chair

Session 4 was chaired by **Prof. (Dr.) Naresh Padha** & **Prof. (Dr.) Rahul Rishi** in which 6 papers were presented with paper Id MRCN24-252, 253, 254, 255, 257, 258 and parallel session was chaired by **Prof. (Dr.) Sandeep Singh Gill** & **Prof. (Dr.) Yajvender Pal Verma** in which 5 papers were presented with paper ID MRCN24-421, 426, 440, 441, 445.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Prof. (Dr.) Naresh Padha & Prof. (Dr.) Rahul Rishi chairing the session



Prof. (Dr.) Sandeep Singh Gill & Prof. (Dr.) Yajvender Pal Verma sessioning the chair

On the second day, next keynote address was given by **Prof. (Dr.) Dinesh Kumar**, Danfoss Global R&D, Denmark & **Dr. Nikhil Kumar Marriwala**, UIET, Kurukshetra University, Kurukshetra. This session was coordinated by Dr. Vijay Kumar Garg & in parallel session was chaired by **Prof. (Dr.) Yudhvir Singh**, **Prof. (Dr.) Rakesh Kumar** & **Dr. Ayush Dogra** in which 5 papers were presented with MRCN24-447, 448, 449, 475, 476.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

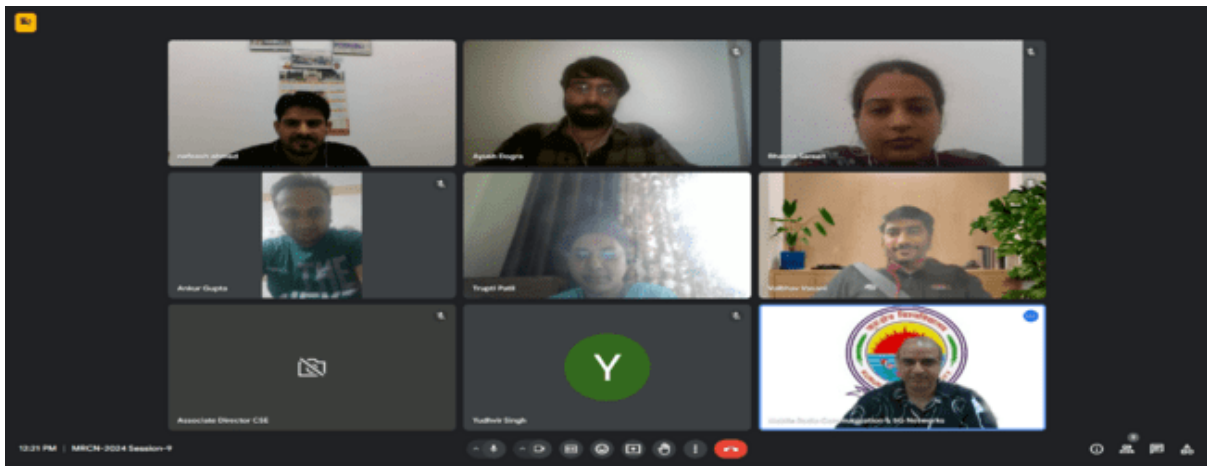
Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Keynote address by Prof. (Dr.) Dinesh Kumar, Dr. Nikhil Kumar Marriwala



Prof. (Dr.) Yudhvir Singh, Prof.(Dr.) Rakesh Kumar & Dr. Ayush Dogra chairing the session

Session 5 was chaired by **Prof. (Dr.) Manoj Kumar & Prof. (Dr.) Sanjeev Dhull** in which 6 papers were presented with paper Id MRCN24-263, 291, 293, 301, 303, 304 and parallel session was chaired by **Dr. Sanjeev Kumar, Prof.(Dr.) Ashok Kumar & Dr. Kalpna Guleria** in which 6 papers were presented with paper ID MRCN24-481, 485, 486, 511, 512, 515



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

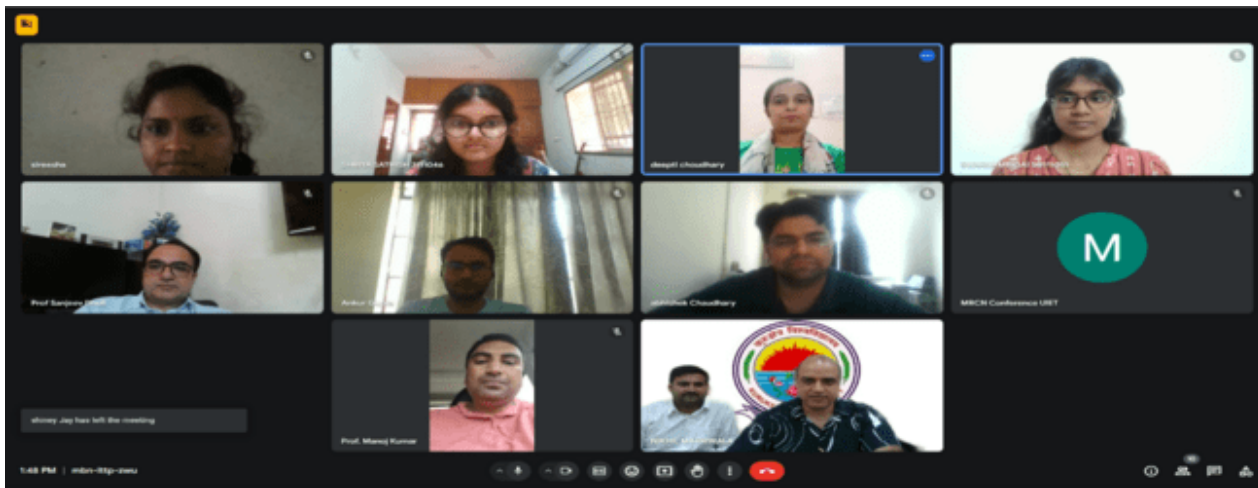


Organized By:
University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Participant presenting the papers under the session chair Prof. (Dr.) Manoj Kumar & Prof. (Dr.) Sanjeev Dhull



Participant presenting the papers under the session chair Dr. Sanjeev Kumar, Prof. (Dr.) Ashok Kumar & Dr. Kalpna Guleria

Session 6 was chaired by **Prof. (Dr.) Amit Kant Pandit & Dr. Bishwajeet Pandey** in which 6 papers were presented with paper Id MRCN24-305, 334, 336, 338, 340, 341 and parallel session was chaired by **Prof. (Dr.) Vinay Bhatia, Dr. Princy Randhawa & Prof. R. S. Chauhan** in which 6 papers were presented with paper ID MRCN24-101, 417, 446, 478, 490, 513.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

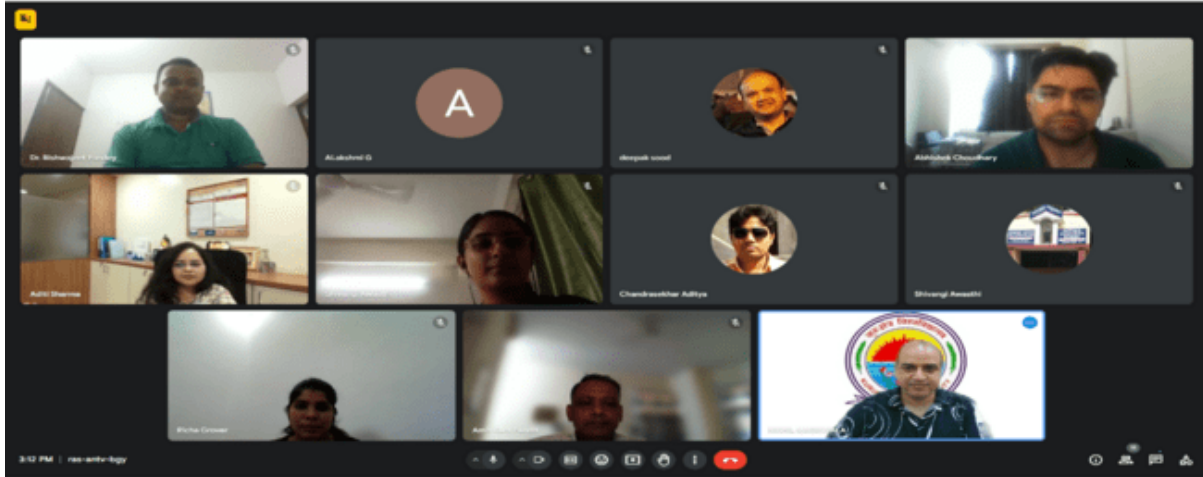
Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

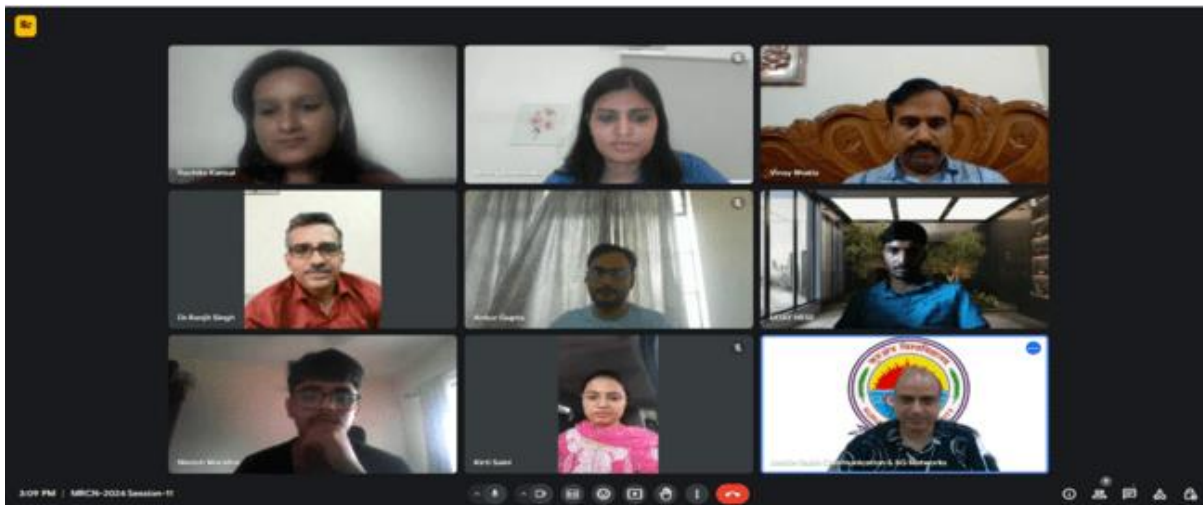
Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Prof.(Dr.) Amit Kant Pandit & Dr. Bishwajeet Pandey chairing the session



Prof.(Dr.) Vinay Bhatia, Dr. Princy Randhawa & Prof. R. S. Chauhan chairing the session



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Conclusion

The 5th International Conference on Mobile Radio Communications & 5G Networks (MRCN-2024) was a resounding success, bringing together leading minds to share knowledge, discuss innovations, and pave the way for future developments in the field. The conference highlighted UIET, Kurukshetra University's commitment to fostering research and innovation, reinforcing its position as a leading institution in technical education and research. The event's success was a testament to the hard work and dedication of the organizing committee, speakers, and participants. We look forward to continuing this tradition of excellence in future editions of MRCN and furthering the boundaries of knowledge and technology in mobile communications and 5G networks.



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



MRCN-2022 International Conference in News

KU Engineering Institute organises 5th International Conference on Mobile Radio Communication

DALBIR MALIK
KURUKSHETRA, AUG 23

The UIET Institute of Kurukshetra University organized the two-day 5th international conference virtually on 'Mobile Radio Communication, 5G Network' to commemorate National Space Day. Vice Chancellor, Kurukshetra University was the Chief Guest of the inaugural session of this conference. During his presidential address, Prof Sachdeva said that Indian scientists and engineers make exceptional contribution globally in the field of knowledge, science, communication and technology. Prof. Sachdeva further said that the revolution in the field of communication brought about by 5G network has played a significant role in dealing with education, science, industrial and global challenges. KU Dean



Engineering and Technology and UIET Director Prof. Sunil Dhingra welcomed all the guests and participants and highlighted the subject matter of the conference. He informed that eminent subject experts Professor (Dr.) Rangaraj M. Rangayyan of University of Calgary, Professor S. Jagannatham of Missouri University of Science and Technology and Dr. Dinesh Kumar of Danfoss Global R & D, Denmark participated in this program and 374 research papers were submitted to MRCN-2024, out of which 60 papers were

selected. Dr. Nikhil Kumar Mariwala, Organizing Secretary of the conference, while emphasizing the role of the conference in advancing knowledge in the rapidly developing field of 5G technology, said that the activities of the conference will be published by Springer in their prestigious series 'Lecture Notes in Networks and Systems', which will further develop the global reach and impact of the research presented in MRCN-2024. Co-ordinator Dr. Vijay Garg thanked everyone.

भारतीय वैज्ञानिकों एवं इंजीनियर्स की पूरे विश्व में विशिष्ट पहचान : प्रो. सोमनाथ सचदेवा

कुरुक्षेत्र, 23 अगस्त (धर्मोत्सव): भारतीय वैज्ञानिकों एवं इंजीनियर्स की पूरे विश्व में विशिष्ट पहचान रही है।

भारतीय वैज्ञानिकों एवं इंजीनियर्स ने ज्ञान, विज्ञान, संचार एवं प्रौद्योगिकी के क्षेत्र में उत्कृष्ट योगदान देकर विश्व पटल पर भारत का नाम रोशन किया है। यह विचार कुरुक्षेत्र विश्वविद्यालय के कुलपति प्रोफेसर सोमनाथ सचदेवा ने

शुक्रवार को कुरुक्षेत्र विश्वविद्यालय के यू.आई.ई.टी. संस्थान द्वारा राष्ट्रीय स्पेस डे के अवसर पर 'मोबाइल रेडियो संचार, 5जी नेटवर्क' विषय को लेकर ऑनलाइन आयोजित 2 दिवसीय 5वें अंतरराष्ट्रीय सम्मेलन के उद्घाटन अवसर पर बतौर मुख्यातिथि बोल रहे थे।

कुवि कुलपति ने कहा कि वर्तमान में तेजी से बदलती प्रौद्योगिकी युग



अंतरराष्ट्रीय सम्मेलन में शामिल कुवि कुलपति व अन्य।

में भारत 5जी नेटवर्क की संचार शक्ति से विज्ञान एवं तकनीक के क्षेत्र में गति से आगे बढ़ रहा है। उन्होंने कहा कि 5जी नेटवर्क से संचार के क्षेत्र में आई क्रांति ने शिक्षा, विज्ञान, औद्योगिक तथा वैश्विक चुनौतियों से निपटने में अहम भूमिका निभाई है।

के.यू. डीन इंजीनियरिंग एंड टेक्नोलॉजी व यू.आई.ई.टी. निदेशक प्रो. सुनील ढिंगरा ने सभी अतिथियों

और प्रतिभागियों का स्वागत करते हुए कार्यशाला की विषय वस्तु पर प्रकाश डाला।

उन्होंने बताया कि इस कार्यक्रम में प्रतिष्ठित विषय विशेषज्ञ कैलगरी विश्वविद्यालय के प्रोफेसर (डॉ.) रंगराज एम. रंगय्यान, मिसौरी यूनिवर्सिटी ऑफ साइंस एंड टेक्नोलॉजी के प्रोफेसर एस. जगन्नाथम और डैनफॉस ग्लोबल के डॉ. दिनेश कुमार

आर एंड डी, डेनमार्क से शामिल हुए तथा एम.आर.सी.एन.-2024 को 374 शोध पत्र प्रस्तुत हुए जिसमें से 60 पेपरों का चयन किया गया।

कार्यक्रम के आयोजन सचिव डॉ. निखिल कुमार मारीवाला ने बताया कि सम्मेलन की गतिविधियों को स्पिंगर द्वारा उनकी प्रतिष्ठित श्रृंखला 'लैट्रर नोट्स इन नेटवर्क्स एंड सिस्टम्स' में प्रकाशित किया जाएगा, जो एम.आर.सी.एन.-2024 में प्रस्तुत शोध वैश्विक पहुंच और प्रभाव को अधिक विकसित करेगा। सहसंयोजक डॉ. विजय गर्ग ने सभी का धन्यवाद ज्ञापित किया।

इस अवसर पर के.यू. डीन ऑफ कॉलेजिज प्रो. अनिल वोहरा, डॉ. श्रुति जैन, डॉ. रणजीत सिंह, डॉ. कल्पना, विजय कुमार गर्ग, शिव कुमार सहित शिक्षाविद एवं उद्योग जगत से विषय विशेषज्ञ, शोधकर्ता एवं छात्र ऑनलाइन कार्यक्रम से जुड़े।

भारतीय वैज्ञानिकों एवं इंजीनियर्स की पूरे विश्व में विशिष्ट पहचान : प्रो. सोमनाथ सचदेवा

हरिभूमि न्यूज ►► कुरुक्षेत्र

भारतीय वैज्ञानिकों एवं इंजीनियर्स की पूरे विश्व में विशिष्ट पहचान रही है। भारतीय वैज्ञानिकों एवं इंजीनियर्स ने ज्ञान, विज्ञान, संचार एवं प्रौद्योगिकी के क्षेत्र में उत्कृष्ट योगदान देकर विश्व पटल पर भारत का नाम रोशन किया है। यह विचार कुरुक्षेत्र विश्वविद्यालय के कुलपति प्रोफेसर सोमनाथ सचदेवा ने शुक्रवार को कुरुक्षेत्र विश्वविद्यालय के यूआईईटी संस्थान द्वारा राष्ट्रीय स्पेस डे के अवसर पर ह्यमोबाइल

- केयू यूआईईटी द्वारा ऑनलाइन आयोजित 5वें अंतरराष्ट्रीय सम्मेलन में मोबाइल रेडियो संचार, 5जी नेटवर्क पर बुद्धिजीवियों ने किया मंथन

रेडियो संचार, 5जी नेटवर्क विषय को लेकर ऑनलाइन आयोजित दो दिवसीय 5वें अंतरराष्ट्रीय सम्मेलन के उद्घाटन अवसर पर बतौर मुख्यातिथि बोल रहे थे। कुवि कुलपति प्रोफेसर सोमनाथ सचदेवा ने कहा कि वर्तमान में तेजी से बदलती प्रौद्योगिकी युग में भारत

5जी नेटवर्क की संचार शक्ति से विज्ञान एवं तकनीक के क्षेत्र में गति से आगे बढ़ रहा है। उन्होंने कहा कि 5जी नेटवर्क से संचार के क्षेत्र में आई क्रांति ने शिक्षा, विज्ञान, औद्योगिक तथा वैश्विक चुनौतियों से निपटने में अहम भूमिका निभाई है। कुवि कुलपति प्रोफेसर सोमनाथ सचदेवा ने तकनीकी शिक्षा और अनुसंधान, विशेष रूप से मोबाइल संचार और उभरती प्रौद्योगिकियों के क्षेत्र में एक अग्रणी संस्थान के रूप में यूआईईटी की अहम भूमिका को रेखांकित किया।



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Springer

केयू में 5जी रेडियो संचार नेटवर्क पर हुआ सम्मेलन

भास्कर न्यूज़ | कुरुक्षेत्र

केयू के यूआईईटी संस्थान की ओर से मोबाइल रेडियो संचार 5जी नेटवर्क विषय पर ऑनलाइन 5वां अंतरराष्ट्रीय सम्मेलन आयोजित किया गया, जिसमें मुख्यातिथि केयू कुलपति प्रो. सोमनाथ सचदेवा रहे। प्रो. सचदेवा ने कहा कि भारतीय वैज्ञानिकों एवं इंजीनियर की पूरे विश्व में विशिष्ट पहचान रही है। भारतीय वैज्ञानिकों एवं इंजीनियर ने ज्ञान, विज्ञान, संचार एवं प्रौद्योगिकी के क्षेत्र में उत्कृष्ट योगदान देकर विश्व पटल पर भारत का नाम रोशन किया है।

प्रो. सोमनाथ सचदेवा ने कहा कि वर्तमान में तेजी से बदलते प्रौद्योगिकी युग में भारत 5जी नेटवर्क की संचार शक्ति से विज्ञान एवं तकनीक के क्षेत्र में

तेजी से आगे बढ़ रहा है। उन्होंने कहा कि 5जी नेटवर्क से संचार के क्षेत्र में आई क्रांति ने शिक्षा, विज्ञान, औद्योगिक और वैश्विक चुनौतियों से निपटने में अहम भूमिका निभाई है।

केयू डीन इंजीनियरिंग एंड टेक्नोलॉजी व यूआईईटी निदेशक प्रो. सुनील ढोंगरा ने बताया कि इस कार्यक्रम में कैलगरी विश्वविद्यालय के प्रोफेसर रंगराज एम रंगय्यान, मिसौरी यूनिवर्सिटी ऑफ साइंस एंड टेक्नोलॉजी के प्रोफेसर एस जगन्नाथम और डैनफॉस ग्लोबल के डॉ. दिनेश कुमार आरएंडडी, डेनमार्क से शामिल हुए।

मौके पर केयू डीन ऑफ कॉलेज प्रो. अनिल वोहरा, डॉ. श्रुति जैन, डॉ. रणजीत सिंह, डॉ. कल्पना, विजय कुमार गर्ग, शिव कुमार मौजूद रहे।



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Springer

‘भारतीय वैज्ञानिकों एवं इंजीनियर्स की पूरे विश्व में विशिष्ट पहचान

जागरण संवाददाता • कुरुक्षेत्र : कुरुक्षेत्र विश्वविद्यालय के कुलपति प्रो. सोमनाथ सचदेवा ने कहा कि भारतीय वैज्ञानिकों एवं इंजीनियर्स की पूरे विश्व में विशिष्ट पहचान रही है। भारतीय वैज्ञानिकों एवं इंजीनियर्स ने ज्ञान, विज्ञान, संचार एवं प्रौद्योगिकी के क्षेत्र में उत्कृष्ट योगदान देकर विश्व पटल पर भारत का नाम रोशन किया है। वह शुक्रवार को कुरुक्षेत्र विश्वविद्यालय के यूनिवर्सिटी इंस्टिट्यूट आफ इंजीनियरिंग एंड टेक्नोलॉजी द्वारा राष्ट्रीय स्पेस डे के अवसर पर मोबाइल रेडियो संचार, 5जी नेटवर्क विषय पर आयोजित आनलाइन दो दिवसीय 5वें अंतरराष्ट्रीय सम्मेलन के उद्घाटन अवसर पर बतौर मुख्यातिथि बोल रहे थे।

उन्होंने कहा कि वर्तमान में तेजी से बदलती प्रौद्योगिकी युग में भारत 5जी नेटवर्क की संचार शक्ति से विज्ञान एवं तकनीक के क्षेत्र में गति से आगे बढ़ रहा है। 5जी नेटवर्क से संचार के क्षेत्र में आई क्रांति ने शिक्षा, विज्ञान, औद्योगिक तथा वैश्विक चुनौतियों से निपटने में अहम भूमिका निभाई है। उन्होंने तकनीकी शिक्षा और अनुसंधान, विशेष रूप से मोबाइल संचार और उभरती प्रौद्योगिकियों के क्षेत्र में एक अग्रणी संस्थान के रूप में यूआइईटी की अहम भूमिका को रेखांकित किया।

Conference on mobile radio communication at UIET-K'shetra

KURUKSHETRA, AUGUST 23

The University Institute of Engineering and Technology (UIET), Kurukshetra University (KU), organised a two-day fifth international conference on 'Mobile radio communication, 5G network' to celebrate National Space Day on Friday.

During the inaugural session of this conference, KU Vice-Chancellor Prof Som Nath Sachdeva said Indian scientists and engineers had made exceptional global contribution in the fields of knowledge, science, communication and technology.

The revolution in the field of communication brought about by 5G network had played a significant role in dealing with education, science, industrial and global challenges, he said.

Engineering and Technology Dean and Director Prof Sunil Dhingra said eminent subject experts such as Prof Rangaraj M Rangayyan from University of Calgary, Prof S Jagannatham from Missouri University of Science and Technology and Dinesh Kumar of Danfoss Global R&D, Denmark, participated in the event. — TNS



5th International Conference on Mobile Radio Communications & 5G Networks, (MRCN-2024)

Organized By:

University Institute of Engineering and Technology, Kurukshetra University,
Kurukshetra, Haryana, India ('A++' NAAC Accredited)

Website: <https://www.uietkuk.ac.in/mrcn/index2024.php>

23rd-24th August, 2024

Sponsored by: Springer



Springer

भारतीय वैज्ञानिकों एवं इंजीनियर्स
की पूरे विश्व में विशिष्ट पहचान :
प्रो. सोमनाथ सचदेवा

सवेरा न्यूज/जसबीर दुग्गल

कुरुक्षेत्र, 23 अगस्त : भारतीय वैज्ञानिकों एवं इंजीनियर्स की पूरे विश्व में विशिष्ट पहचान रही है। भारतीय वैज्ञानिकों एवं इंजीनियर्स ने ज्ञान, विज्ञान, संचार एवं प्रौद्योगिकी के क्षेत्र में उत्कृष्ट योगदान देकर विश्व पटल पर भारत का नाम रोशन किया है। यह विचार कुरुक्षेत्र विश्वविद्यालय के कुलपति प्रोफेसर सोमनाथ सचदेवा ने शुक्रवार को कुरुक्षेत्र विश्वविद्यालय के यूआईईटी संस्थान द्वारा राष्ट्रीय स्पेस डे के अवसर पर ह्यमोबाईल रेडियो संचार, 5जी नेटवर्क विषय को लेकर ऑनलाइन आयोजित दो दिवसीय 5वें अंतरराष्ट्रीय सम्मेलन के उद्घाटन अवसर पर बतौर मुख्यातिथि बोल रहे थे। कुवि कुलपति प्रोफेसर सोमनाथ सचदेवा ने कहा कि वर्तमान में तेजी से बदलती प्रौद्योगिकी युग में भारत 5जी नेटवर्क की संचार शक्ति से विज्ञान एवं तकनीक के क्षेत्र में गति से आगे बढ़ रहा है। उन्होंने बताया कि इस कार्यक्रम में प्रतिष्ठित विषय विशेषज्ञ कैलगरी विश्वविद्यालय के प्रोफेसर (डॉ.) रंगराज एम. रंगय्यान, मिसौरी यूनिवर्सिटी ऑफ साइंस एंड टेक्नोलॉजी के प्रोफेसर एस. जगन्नाथम और डैनफॉस ग्लोबल के डॉ. दिनेश कुमार आर एंड डी, डेनमार्क से शामिल हुए तथा एमआरसीएन-2024 को 374 शोध पत्र प्रस्तुत हुए जिसमें से 60 पेपरों का चयन किया गया।