

Second International Conference on Machine Learning, Deep Learning and Computational Intelligence for Wireless Communication MDCWC 2023

22nd June to 24th
June 2023
(Hybrid Event)

Pattern recognition and Computational Intelligence group, Department of Electronics and Communication Engineering
National Institute of Technology Tiruchirappalli



Publication partner



MDCWC2023

mdcwc2023@nitt.edu

Patron

Dr. G. Aghila, Director,
NIT, Tiruchirappalli

Organisers cum Editors

Dr. E.S. Gopi,
Convener

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Dr. P. Maheswaran,
Co-ordinator

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Past Event



Nearby Tourist Attractions



Motivation

Due to the availability of high speed computing system, there is the huge scope to still raise the standard of wireless communication in terms of massive connectivity, capacity enhancement, ultra-high reliability, low latency using Machine learning (ML), Deep learning (DL) and Computational intelligence (CI) algorithms. The conference aims in bringing out the wireless research community and machine learning research community to submit their findings integrating ML, DL and CI for wireless communication. About 50 top quality papers are expected to be presented in the Hybrid mode and is planned to publish the presented papers as the book in the series of Signals and communication technology (published by springer). The papers are grouped under one

Key Note Speakers

Prof. Arumugam Nallanathan

Professor of Wireless Communications, FIEEE, FIET, CEng,
Web of Science Highly Cited Researcher
Founding Head of Communication Systems Research (CSR) Group
School of Electronic Engineering and Computer Science
Queen Mary University of London

Dr. Jithin Jagannath

Chief Scientist of Technology, ANDRO Computational Solutions, LLC,
Founding Director of Marconi-Rosenblatt AI/ML Innovation Lab,
Adjunct Assistant Professor, Department of Electrical Engineering at the **University at Buffalo**
IEEE Senior Member | IEEE Region 1 Technological Innovation Awardee,
AFCEA International Meritorious Rising Star Awardee, AFCEA 40 Under 40

Paper Submission:

Download template [here](#)

Submit the paper through [easyChair](#) through the following [link](#):

Phase I: Last date for paper submission: **30th March 2023**
Review status notification: **30th April 2023**

Phase II: Last date for paper submission: **21st April 2023**
Review status notification: **21st May 2023**

Number of pages restricted to **12 pages**.

Attach the covering letter as the additional page at the beginning of the paper indicating contributing author's name, affiliation, type of paper ([Tutorial paper](#), [Survey paper](#), [Research articles](#) and [Data publications](#))

Track 1: Machine learning, Deep learning and Computational intelligence algorithms

Track 2: Wireless Communication Systems

Track 3: Mobile data applications

Track 4: Hardware Realizations



Invited Talks

Dr. Narayanan C Krishnan, Head, Department of Data science, IIT Palakkad
Dr. Prabhat Kumar sharma, Department of ECE, VNIT Nagpur
Dr. Rahul mashram, Department of ECE, IIIT Allahabad
Dr. Swaminathan, Department of ECE, IIT Indore

Workshop 1:

Mathematical foundations for Wireless communication and Machine Learning.

Speakers: 1.Dr. E. S. Gopi and Dr. P. Maheswaran.

Though this session is inclusive for Author registration and participant registration, exclusive registrations are floated for this session. **Rs.1000/-** will be charged for exclusive registration of this session.

Workshop 2:

Deep Learning based RF Signal Classification:

Hands-on (Will be launched based on the count of exclusive registrations for this workshop as on May 31st 2023). **Rs.1000/-** will be Charged to attend this workshop.



TPC External Members

Dr.A.Ananth, IIIT Kottayam
Dr. Amarjit Kumar, NIT Warangal
Dr. Amit Agarwal, VNIT Nagpur
Dr. Anamika Singh, NIT, Nagpur
Dr. Aniruddha Kanhe, NIT Pondicherry
Dr. Apangshu Das, NIT Agartala
Dr. Ashraf Hossain, NIT Silchar
Dr. Biniya T. S, NIT, Calicut
Dr. ChV Rama Rao, NIT, Warangal
Dr. Chayan Bhar, NIT, Warangal
Dr. Deepthi P.P., NIT Calicut
Dr. Deepti Kakkar NIT, Jalandhar
Dr. Dheeraj Dubey, NIT Allahabad
Dr. Dibyendu Ghoshal, NIT Agartala
Dr. Ganesh Prasad, NIT Silchar
Dr. Ila sharma, NIT, Allahabad
Dr. Lyla B Das, NIT, Calicut
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Dr. Prabhat Sharma, NIT Nagpur
Dr. Prashant K Shah, NIT Surat
Dr. Pushendra Singh, NIT, Hamirpur
Dr. R Murugan, NIT, Silchar
Dr. Rahul Meshram, IIIT Allahabad
Dr. Ravi Kumar Jatoth, NIT Warangal
Dr. Reshmi Dhara, NIT, Sikkim
Dr. Roshan Bodile, NIT Jalandar
Dr. Salam Shuleenda Devi, NIT, Meghalaya
Dr. Shravan Kumar Bandari, NIT, Meghalaya

Dr. Shrishailayya M Hiremath, NIT Rourkela
Dr. Shweta shah, NIT, Surat
Dr. Smriti Agarwal, NIT, Allahabad
Dr. Sreenath Reddy Thummalur, IIITDM, Kancheepuram
Dr. Umesh Chandra Pati, NIT, Rourkela
Dr. V. Sakthivel, NIT Calicut
Dr. V.V.Mani, NIT, Warangal
Dr. Vasundhara, NIT, Warangal
Dr. Vipin Kamble, VNIT Nagpur
Dr. Vishal Ramesh Satpute, NIT Nagpur
Dr. Wasim Arif, NIT, Silchar

External session chairs

Dr. Anamika singh,
Department of ECE, VNIT Nagpur
Dr. Prabhat Kumar sharma,
Department of ECE, VNIT Nagpur
Dr. Rahul mashram,
Department of ECE, IIIT Allahabad
Dr. Shyam lal,
Department of ECE, NIT, Karnataka
Dr. Swaminathan,
Department of ECE, IIT Indore

Internal TPC Members and session chairs

Faculty from the Department of ECE,
NIT Tiruchirappalli [Link](#)

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For complete details [click here](#)

Tentative Programme schedule

DAY 1		
Start	End	Event
9.30 A.M.	10.00 A.M.	Inauguration
10.00 A.M.	11.00 A.M.	Key Note presentation 1
11.15 A.M.	12.30 P.M.	Technical paper presentations 1 (Two parallel sessions)
1.30 P.M.	2.30 P.M.	Invited Talk 1
2.30 P.M.	3.45 P.M.	Technical paper presentations 2 (Two parallel sessions)
3.45 P.M. Visit to local historical places		
DAY 2		
9.00 A.M.	10.00 A.M.	Invited Talk 2
10.00 A.M.	11.30 A.M.	Technical paper presentations 3 (Two parallel sessions)
11.45 A.M.	12.45 P.M.	Invited Talk 3
1.45 P.M.	3.45 P.M.	Workshop I
4.00 P.M.	5.15 P.M.	Technical paper presentations 4 (Two parallel sessions)
DAY 3		
9.00 A.M.	10.00 A.M.	Key Note presentation 1
10.15 A.M.	12.15 P.M.	Workshop II
1.15 P.M.	2.15 P.M.	Invited Talk 4
2.30 P.M.	3.45 P.M.	Technical paper presentations 5 (Two parallel sessions)
3.45 P.M.		Closing Remarks

Supporting Team members: Rajasekhar reddy poreddy, Vinodha K, Kiruthika C, Neema M, Simy M Baby, Hariganesh.E.G., K.M.Deepika Rajpoot (Research scholars)
Kotturi Sai Harshita, Tushar Agnihoj, Bhatnagar Dhruv Bhagwanswaroop, Sourav bhaktha (M.Tech students)

Review and Publication details ([Link for registration](#)):

Every submitted papers will be subjected to review by three reviewers (Single-blind review process will be executed) and all the accepted papers will be published as the proceedings published by Springer (Signals and Communication Technology (series is indexed by EI Compendex and Scopus databases).

Registration Type	Mode of Participation	Indian Registration	Foreign Registration	Benefits
Full Author Registration	Hybrid	Rs.8000	150 USD	Access to all the events of the conference + Paper presentation + Publications
Participant Registration	Hybrid	Rs.3000	50 USD	Access to all the events of the conference
Workshop 1 Registration	Hybrid	Rs. 1000	15 USD	Access to workshop Day 2: 1.45 P.M. to 3.45 P.M.
Workshop 2 Registration	Hybrid	Rs. 1000	15 USD	Access to workshop Day 3: 1.45 P.M. to 3.45 P.M.
Limited free Registration for ONLINE participation (Registration portal will be opened few days before the event)	Hybrid	NIL	NIL	Access to Key Note presentations, Invited talk and Paper presentation sessions. Registration will be based on FCFS basis