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

COMPSIG NITT

Publication partner

Signals and Communication Technology

MDCWC2023

mdcwc2023@nitt.edu

Patron
Dr. G. Aghila, Director, NIT, Tiruchirappalli

Organisers cum Editors

Dr. E.S. Gopi,
Convener
esgopi@nitt.edu

Dr. P. Maheswaran,
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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 of the four category namely (a)Tutorial papers (b)Survey papers (c) Research articles (d) Data publications on MDCWC.

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: **30sth April 2023**
(Hard deadline)
Review status notification: **30st 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.

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).

Recognized by
IEEE COMSOC ETI-MLC
Machine Learning For Communications Emerging Technologies Initiative
Contact : esgopi@nitt.edu, mahes@nitt.edu mdcwc2023@nitt.edu

For complete details click here

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 Registraion	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

TPC Members

Dr. A. Ananth, IIITK
Dr. Amarjit Kumar, NITW
Dr. Amit Agarwal, NITT
Dr. Anamika Singh, VNIT
Dr. Aniruddha Kanhe, NITP
Dr. Apangshu Das, NITA
Dr. Aparna P, NITK
Dr. Ashraf Hossain,NITS
Dr. Avik Hati, NITT
Dr. B Shameedha begum, NITT
Dr. B. Chandrababu Naik, NITT
Dr. B. Nithya, NITT
Dr. Bibin, NITT
Dr. Bindiya T. S, NITC
Dr. C. Oswald, NITT
Dr. Ch V Rama Rao, NITW
Dr. Chayan Bhar, NITW
Dr. Christopher Clement J, VIT, Vellore
Dr. Deepthi P P, NITC
Dr. Deepti Kakkar, NITJ
Dr. Deivalakshmi, NITT
Dr.Dheeraj Dubey,MNNIT
Dr. Dibyendu Ghoshal, NITA
Dr. E. S. Gopi, NITT
Dr. G M Rather, NITS
Dr. G Thavasi Raja, NITT
Dr. Ganesh Prasad, NITS
Dr. Hemanth kumar,NITT
Dr. Ila sharma, MNITJ
Dr. Jakkepalli Pavan Kumar,NITT

Dr. Lakshi Prosad Roy, NITR
Dr. Lyla B Das, NITC
Dr. Malaya Kumar Nath,NITP
Dr. Malmathanraj, NITT,
Dr. Milind Thomas, IIIT,Kottayam
Dr. Naresh Reddy, NITT
Dr. Nickolas S, NITT
Dr. P. Maheswaran, NITT
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Dr. Prabu K, NITK
Dr. Prashant K Shah, SVNIT, Surat ,
Dr. Priyanka, IIIT,Kancheepuram
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Dr. R Murugan, NITS
Dr. Rahul Meshram, IIITA
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Dr. Shrishail Hiremath, NITR

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Dr. Umesh Chandra Pati,NITR
Dr. V V Mani, NITW
Dr. V. Sakthivel, NITC,
Dr. V. Sudha, NITT
Dr. Vasundhara, NITW
Dr. Vinay Raj, NITT
Dr. Vipin Kamble, VNIT, Napur
Dr. Vishal Ramesh Satpute,VNIT, Nagpur
Dr. Vishnu Priya, NITT
Dr. Wasim Arif., NITS

External session chairs

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

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 Agnibhoj, Bhatnagar Dhruv Bhagwanswaroop, Sourav bhaktha (M.Tech students)