

# International Conference on Machine Learning for Signal Processing, Communications and Control Systems

## ICMSECC-2023

Organized By:



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**International Conference on  
Machine Learning for Signal  
Processing, Communications and  
Control Systems**

**ICMSECC-2023**

**Editors**

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***Publish By:***

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## ***Preface***

Conference word and AR Research Publication is a fast-growing group of academicians in Engineering, Sciences, and Management. A R Research Publication is also known for its fast reply and zero-error work. The conference world has organized various conferences at renowned places namely Delhi University; New Delhi, Jawaharlal Nehru University; New Delhi, PHD Chamber of Commerce and industry New Delhi, YMCA New Delhi, India International Centre New Delhi, Sri Venknteswara College of Engineering and Technology, Andhra Pradesh, Vedant Engineering Kota and many more places across the country.

We are very pleased to introduce the proceedings of the International Conference on Machine Learning for Signal Processing, Communications and Control Systems ICMSCC - 2023 . The Recent Innovations & Development in field of Engineering and Technology were addressed by the papers presented at the conference. The level of Interest in the subject matter of the conference was maintained from previous events and over 18 suitable papers were submitted for presentation at the conference.

Papers were well represented at the conference to arouse a high level of international interest. The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chairmen. The program was chaired professionally and efficiently by the session chairmen also highly gratifying, showing the high level of interest in the subject. This Proceeding provides a permanent record of what was presented. They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all authors in the field for that reason. Finally, it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas. We are also indebted to those who served as chairmen, without their support, the conference could not have been the success that it was. We also acknowledge the authors themselves, without whose expert input there would have been no conference. Their efforts made a great contribution to its success.

## **About the Conference**

The long and successful history of Machine Learning finds extensive application in the fields of Signal Detection, Channel Encoding and Decoding, Channel Estimation and Prediction, End to End Communication, Resource Allocation and intelligent control,

specifically optimal control problems for complex nonlinear systems which violates the principles of linear control systems. The challenge of the day is to develop efficient Machine learning algorithms to address various tasks pertaining to learning and generalization. This international conference ICMSCC aims to bring leading academicians, scientists, research scholars and students together around the world to exchange and share their experiences and research findings on the aspects of experimental results and the theoretical propositions, various use cases pertaining to the applications of machine learning in the specified fields of engineering. It also serves as a prominent multidisciplinary forum for academics, practitioners, and educators to present and debate the most current breakthroughs, trends, and concerns, as well as practical difficulties and solutions in the domains Signal Processing, Communications and Control Systems.

### **About IARDO**

International Association of Research and Developed Organization (IARDO) is a leading organization in the field of academic research activities under the banner of India Educational Charitable Trust (Regd).

International Association of Research and Developed Organization (IARDO) is an apex body that promotes and encourages commendable achievements from all over the country. The organization under conference world regularly organizes national and International level conferences with the help of its members to promote socially responsible education practices and sustainable development in economic as well social front in India.

### **About the College**

Geethanjali College of Engineering & Technology has been structured to take head on the changing trends of technology. The idea of setting up the college emerged when no other college could cater to the needs of a student in his/her endeavor to acquire wholesome education. The very strength of Geethanjali lies in its principles of providing the right learning environment for the student who does not have to compromise throughout the learning process of becoming global citizen.

The college recognizes that the rapidly changing technological landscape would require young technocrats with an understanding of evolving technologies, but also with a global perspective. A major goal of Geethanjali is to impart a uniquely broad and

interdisciplinary Engineering education of the highest academic quality. This is achieved through an integrated curriculum that consists of a highly diverse set of technical courses, interdisciplinary research projects, day-to-day interaction with industry, and preparation in entrepreneurship and personality development courses.

At Geethanjali learning pushes all boundaries of conventional thought in pursuit of understanding science in relation to the society. Every concept a Geethanjali acquires carries the inbuilt awareness of how it can be applied to render human life better.

Over the years since it was established, there has been dynamic progress at Geethanjali in all academic and research activities, and a parallel improvement in facilities and infrastructure, to keep it on par with the best institutions in India. The campus epitomizes the Geethanjali motto, "Striving towards perfection" in providing the best of infrastructure and ambience. Geethanjali keeps a keen eye on the current trends and innovations happening in the industry and offers learning methods, which are designed to meet the evolving requirements of the industry.

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**Dr. Ratnakar Dash**, NIT, Rourkela

## Key Note Speakers

**Dr.A.G.Krishna Kanth**

Vice-Chair, IEEE CAS/EDS Hyderabad Chapter,  
Director of Analog Mixed-Signal R&D at AMS Semiconductors

**Sri. G. R. Ravinder Reddy**

Chairman, Geethanjali College of Engineering & Technology

**Dr. S. Udaya Kumar**

Principal, Geethanjali College of Engineering & Technology

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**Dr.Prabhu Chandar Chandar**

Research Labs Pvt.Ltd., Chennai

**Dr. S.Spandana,**

Data Scientist, Hyderabad

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shortlisted by the committee.

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