



# 3rd INTERNATIONAL CONFERENCE ON MACHINE INTELLIGENCE AND SIGNAL PROCESSING

MISP-2021

<https://www.misp.nitap.ac.in>

Organized by

NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH, INDIA

SEPTEMBER 23-25, 2021

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## 1. Title of the Special Session:

*Intelligent Communication Services and Applications*

## 2. Details of Session Chair and Co-Chair:

*Dr Anand Sharma, (Asst. Professor, CSE, SET, MUST, Lakshmanagarh, Rajasthan, India),*

*Dr Prateek Agrawal, (Assoc Prof, School of CSE, LPU, Punjab, India | Researcher, ITEC, University of Klagenfurt, Austria),*

*Prof. Vishu Madaan, (Asst. Professor, School of CSE, LPU, Punjab, India)*

*Dr Charu Gupta, (Asst. Professor, BPIT, New Delhi, India)*

## 3. Aims & Scope (Theme of Session):

Intelligent communication services such as firewall capabilities and server load balancing are essential in private cloud computing and cloud Infrastructure-as-a-Service. As such, the virtualization and consolidation efforts must be extended to firewall devices through the support of virtual device contexts or virtual partitions on the physical firewall or server load-balancing devices. The intelligence is provided by network nodes on the service layer, distinct from the switching layer of the core network, as opposed to solutions based on intelligence in the core switches or equipment. The Intelligent network nodes are typically owned by telecommunications service providers such as a telephone company or mobile phone operator.

The attention is particularly focused on the particular application of machine learning tools to the optimization of intelligent networks. Machine and deep learning techniques become increasingly popular and achieve remarkable success nowadays in many application domains, e.g., speech recognition, bioinformatics and computer vision. The analytical models of the intelligent network, which is responsible for controlling the provision of intelligent network services, taking into account the self-similarity of the flow of applications.

This special issue aims at providing a platform for academic and industrial researchers and practitioners to exchange and publish the most prominent challenges as well as the latest research trends and results for the role of intelligent network and application.

The central theme of this Special Issue is to investigate novel methodologies, theories, systems, and applications for the creation of such intelligence in network and communication systems.

## 4. Subtopics:

- *Intelligent Network Architecture (INA)*
  - *Network and Service Management (NSM)*
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- *Artificial intelligence Techniques for NSM*
- *ML Models for NSM*
- *AI/ML for network slicing optimization*
- *Artificial Neural Network (ANN)*
- *Next Generation Network (NGN)*
- *Mobile Communications and Networks*
- *Virtual private networks*
- *Cyber-Physical System*
- *Data mining and big data analytics in networking*
- *Artificial Intelligence in smart living and smart spaces*
- *Smart Service Orchestration and Delivery*
- *Software Defined Networking (SDN)*
- *Mobile-radio systems*
- *Intelligent Networks and Medical Machines*
- *Network Security based on AI/ML techniques*
- *Natural Language Processing*
- *IoT and Machine Learning*
- *Cloud Computing and Security*
- *Block-Chain Technology*
- *Federated Learning*
- *Explainable AI (X-AI)*
- *Human-Machine Interaction*
- *speech recognition*
- *Bioinformatics*
- *Brain Imaging*
- *Computational Biology*
- *Computer vision*
- *Smart Grid*

## 5. Technical Programme Committee(s):

- Prof S.R.Biradar
- Prof HKD Sarma
- Prof Anil Kumar Dahiya
- Dr S S Verma
- Dr S K Jangir





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- Dr Suneet Gupta
- Dr Somil Jain

6. **Submission Procedure:** Researchers and practitioners are invited to submit papers through the below given easy chair link:

[Springer Author's Guidelines](#)

[EasyChair Submission](#)

All submissions must be original and may not be under review by another publication. The submitted papers will be reviewed on a double-blind and peer review basis.

## 7. Publications:

All accepted and registered papers under MISP 2021 will be considered for publication in Springer Book Series, "Advances in Intelligent Systems and Computing".

All inquiries should be directed to the attention of Session Chair/Co-Chair:

Name: Dr Anand Sharma

Designation: Asst. Prof. CSE

Email Id: [research.publication.cse@gmail.com](mailto:research.publication.cse@gmail.com) Contact Number: +91-7737785474

## Submission Guidelines for Authors

- ❖ Prospective authors are invited to submit original research work that falls within the scope of the session. All submissions will be thoroughly peer-reviewed by experts based on originality, significance and clarity.
- ❖ Only papers presenting novel research results or successful innovative applications will be considered for publication in the conference proceedings.
- ❖ Authors are requested to submit their Manuscripts through the Easy Chair System. The paper must be in Springer AISC series format and of maximum 12 pages. Papers longer than 12 AISC pages will be subjected to an extra page fee at 50 USD per extra page. Authors are requested to submit their Manuscripts through the Easy Chair System.
- ❖ Authors are requested to kindly strictly follow the paper format. Please visit conference webpage for paper format <https://www.misp.nitap.ac.in>.





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- ❖ Hence, it is the responsibility of each author to strive for the highest ethical standards with respect to plagiarism.

### Special Session Timeline

Paper Submission Deadline: 1<sup>st</sup> April 2021

Notice of Acceptance: 1<sup>st</sup> May 2021

Camera Ready Due: 10<sup>th</sup> May 2021

Registration Due: 15<sup>th</sup> May 2021

Conference Date: 23<sup>rd</sup> -25<sup>th</sup> September 2021

