



## Special Session ICICC 2019 Details

### Session Title: Mitigative and Analytical tools for Cyber Security with Machine learning

#### Algorithms

**Aim:** The special session is focused on Recent Tools in Cyber Security against Cyber Crimes and Information War. Warfare is conducted to show each and every country's strength. However, malicious monsters threaten the society. Since, Modern Cyber world need to tackle the problems such as Ransomware, Information war, Identity theft, OddManOut attack, Distributed Denial of Services (DDoS), etc. The aim of the session is achieving Secure, Intelligent, Fault tolerant and Decision Supportive Systems using Machine Learning algorithms on Cyber world with Computational Intelligence. Computational Intelligence has been the talk of the day and has lead to various innovations in the field of Medicine, Engineering and Technology. The Research Paradigm signifies the training given to a System for developing Standard Applications addressing various problem domains. Intelligence is a set of rules written through Programs, and could also be tasks which simulate all activities in the human body etc. The trends in Computational Intelligence encompass Fuzzy Logic, Artificial Neural Networks, Evolutionary Computation, Probabilistic reasoning and many more. Machine Learning has become an integral part in the Computer field to make computers to do actions faster without programming it explicitly. Today there is a rapid increase in CyberSecurity attacks and this in synergy with Machine Learning paves the way for effectively detecting problems in the same. The Special Session would pave the way for all Researchers to discuss and submit ideas on the topics of Interest not limited to the following Cyber Security Issues.

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#### Areas of Coverage (sub-themes)

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- Security on Software Defined Networks
  - Cyber Forensics Methodologies and Tools
  - Authentication Techniques and Encryption
  - Machine Learning Algorithms
  - Security on Social Networks
  - New Generation (5G) Protocols
  - Fault Tolerant Systems
  - Networks onChip for Disaster Management
  - Decision Supportive Systems
  - Information Warfare Arsenal
  - Optimizing Techniques
  - Data Mining and Data Analysis
  - Deep Learning



- Brain Computing Interface
- Cyber Crimes and Laws
- Cognitive Science
- Neural Networks
- Big Data Techniques
- Geographical Information Systems

### Session Chairperson Details



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Dr. R. Kavitha is working as an Assistant Professor in SASTRA Deemed University from 2013. She has completed her Ph.D (First Class) in Computer Science and Engineering (CSE) at St.Peter's Deemed University and her Masters Degree in CSE is from SRM Deemed University with Distinction. She is a Gold Medalist in DMA. She has done various online courses such as Cyber Security, Python Programming, Remote Sensing and GIS, Cloud computing etc. She has 19 years of experience in the field of Teaching. She has published more than 47 Papers in International Journals and Conferences. She is serving as a Technical Peer Committee member and International Journal Reviewer for Peer Reviewed Journals and Conferences. She has organized International Conferences, Symposium and National level Workshops. She is an active key note speaker and Guest Lecturer in National level workshops and International Conferences. She has done various levels of funded projects. She is a member of several professional bodies such as ISSE, IETE, CSI and IEEE. Her area of Interest is Cyber Security, Steganography, Data Mining, Agile Software Engineering, Computer Networks, Security on Sensor Networks and Internet Of Things, Image Processing and Multimedia.



## Session Co-Chairperson Details



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