International Conference on *Signals, Machines and Automation* (SIGMA 2018)

23-25 February, 2018, ***Venue:*** Netaji Subhas Institute of Technology (NSIT) Delhi

The International Conference SIGMA-2018 is intended to provide a common platform to the researchers to present, explore and discuss various key challenges and their probable solutions in the fields related to signals, machines and automation. It is expected to have participation from various nations offering an environment to interact with international delegates. It is an excellent opportunity for the authors to present new research results and discussion about them, leading to knowledge transfer and the generation of new ideas.

SIGMA 2018 is to be organized in association with **IOS-Press, Netherlands** and **Springer, Germany**. We are having two publication options for the accepted papers of SIGMA 2018. More details are available at **http://www.nsit.ac.in/SIGMA2018/**. The conference will feature plenary/keynote talks, workshops, demonstrations, parallel technical sessions and tutorials.

Call for Paper

Authors are invited to submit original unpublished work that is not currently under consideration for publication elsewhere via the various tracks hosted by SIGMA 2018. Topics of interest for submission include, but are not limited to:

- **Track I: Intelligent Tools and Techniques**
- **Track II: Applications using Intelligent Techniques in Electrical & Energy Systems**
- **Track III: Applications using Intelligent Techniques in Electronics & Communication**
- **Track IV: Applications using Intelligent Techniques in Mechanical and Automation**
- **Track V: Heath care, Business Intelligence and Big Data Analytics**
- **Track VI: Applications using Intelligent Techniques in E-Commerce**

Track I: Intelligent Tools and Techniques

- Expert Systems
- Machine Learning
- Artificial Neural Networks
- Fuzzy Logic and its Techniques & Systems
- Knowledge-Based Systems
- Genetic Algorithms
- Genetic Programming
- Evolutionary Computing
- Data Mining
- Deep Learning Technology
- Hybrid Intelligent Systems
- Internet Computer Vision
- Intelligent Control Systems
- Intelligent Mechatronic
- Artificial Life
- Compressive Sensing
- Rough Sets
- Extreme Learning Machine
- Support Vector Machine
- Gene Expression Programming
- Cognitive Modelling
- Smart Grid Communications
- Distributed Intelligence
- Intelligent Manufacturing Systems
- Cloud Robotics
- Intelligent Agents and Multi-Agent Systems
- Intelligent Communication Systems
- Intelligent Signal Processing
- Smart Sensor Networks
- Cryptography
- Spatial & Temporal Reasoning
- Intelligent Web Mining & Applications
- Intelligent Micro-Grid
- Wavelets
- Bioinformatics using Intelligent Techniques
- Semantic Media Processing
- Intelligent E-business and E-learning
- Information Agents on the Internet
- Sensing, Clustering and Classification
- Biologically Inspired Computation
- Social Recommender Systems
- Information Forensics and Security
- Paraphrasing
- Knowledge Discovery
- Agents and Multi-Agent Systems
- Causal Discovery and Inference
- Intelligent Semiconductor Devices and Circuits
- Optimization Techniques
- Intelligent Information Retrieval
- Intelligent Network Protocols
- Knowledge Management

Track II: Applications using Intelligent Techniques in Electrical & Energy Systems

- Renewable Sources of Power Generation
- Energy Harvesting
- Power System Deregulation
- Energy Markets, Modeling
- Simulation and Emulation of Large Power Systems
- Smart Grids and Cyber Security
- Power Electronics and Drives
- Power Automation
- Condition Monitoring and Fault Diagnosis
- Wide Area Monitoring & Control
- Electrical Machine & Industrial Drives
- Demand Side Management
- Power System Instrumentation and Control
- Power System Communication
- Energy Efficiency
- Wind & Solar Forecasting
- Energy Economics
- Power System Protection
- Utilization of Electrical Energy
- Power Apparatus Designing and Testing
- Distribution Systems
- Power Quality, HVDC and FACTS
- Power Devices, Packaging and EMI
- Diagnostic Systems
- Industrial Control and Monitoring
- High Voltage Engineering
- Electrical & Electronics Measurement
- Transducers and Signal Conditioning
- Computer Application in Power System
- Biological Instrumentation
- Energy Auditing
- Process Modeling and Control
- Reliability Engineering
- Converter Topologies & Control
- Electric Vehicle and Automations

Track III: Applications using Intelligent Techniques in Electronics and Communication

- Wireless communication
- Signal, Speech and Image Processing
- VLSI
- Design Testing
- Fault tolerance systems
- Modeling and Simulation
- Microsystems and applications
- Microprocessor and Microcontroller
- Micro and Nano electronics
- Computer Vision
- RF and Microwave
- Robotics
- Antenna
- Laser Techniques
- Quantum Computing
- Communication Protocols
- Cognitive Radio
- GPS and Remote Sensing
- Big data analysis through signal processing
- Information Forensic and Security
- Sensors Network
- Signal Detection and Parameter Estimation
- Embedded Systems
- Low and high frequency circuits
- Mobile and Satellite Communication
- Adhoc Networking
- Faults analysis and its Diagnosis

Track IV: Applications using Intelligent Techniques in Mechanical and Automation

- Vibration & Control
- Thermal Engineering
- Heat transfer
- Sustainable Energy
- Industrial Engineering
- Tribology
- Advanced Manufacturing
- Safety Reliability & Risk Management
- Mechatronics & MEMS
- Composite Materials
- Green Manufacturing
- Rapid Prototype, I. C. Engines
- CAD/CAM/CIM
- Product Development & Strategies
- Fluid engineering systems
- Automotive Technology
- Machine Design & Dynamics
- Nano Technology
- Robotics
- Fracture Mechanics
- Condition Monitoring and Fault Diagnosis

Track V: Heath care, Business Intelligence and Big Data Analytics

- Data and analytics
- Managed value and risk analytics
- Pharmacy care services
- Population health management
- Behavior health solution
- Care and clinical management
- Advocacy support services
- Prevention and well-being
- Financial services
- Health care operations
- Claims Manager
- Big Data Intelligence Analysis
- Big Data Quality and Management
- Crowd-Sourcing Systems
- Customer Segmentation or Profiling
- Design Strategies for Big Data Analytics
- Economic Issues of Big Data Analytics
- Healthcare Decision Support
- Open-Source Intelligence
- Design Strategies for Big Data Analytics
- Active Learning and Imbalanced Data Handling
- Advanced Communications Engine
- Big Data Knowledge Indexing and Classification
- Business Analysis for Mobile and Cloud Applications
- Business Intelligence Applications for Finance
- Business Process Mining and Intelligence
- Security, Privacy and Legal Issues Specific to Big Data
- Software and Tools for Big Data Management
- Visual Interface and HCI for Business Intelligence

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Track VI: Applications using Intelligent Techniques in E-Commerce

• Health Informatics • E- Banking • Online Healthcare System • E-Commerce Customer Behaviour Analysis & Prediction • M-Commerce • Digital Content Design • Food Business In E-Commerce • Smart Tourism and Smart Logistics • Economics of E-Commerce	• Learning Behaviour Analysis • E-Learning • Fraud And Misuse Detection • Sales Forecasting • Knowledge Management • Case Study of E-Service Applications Practices • Smart and Wearable Technologies • Organic Media For Connected World • Mobile Payments • Social Commerce	• Personalization and Recommendation System • Business Model For E-Service Applications • Cybersecurity • Human Computer Interactions • Big Data and Machine Learning in E-Commerce • Data Mining • Social Media And Digital Marketing • Smart Health & Hospitals • Customer Churn

Submission Link https://easychair.org/conferences/?conf=sigma2018

Publication Options

We plan to have two publication options for accepted and presented papers of SIGMA-2018. Selected best papers will be published as a special issue in The *Journal of Intelligent and Fuzzy Systems* ***(SCI Impact Factor 2016: 1.261)***. Remaining papers will be published in prestigious book series of Advances in Intelligent Systems and Computing Series (Springer, Germany).

The journal is indexed by Academic Source Complete, ACM Digital Library, Business Source Complete, Cambridge, Scientific Abstracts, Compendex, Computer Science Index, CSA Illumina, EBSCO databases, Google Scholar, Inspec IET, Mathematical Reviews, Microsoft Academic Search, Science & Technology Collection, **Scopus**, Ulrich's Periodicals Directory, Web of Science: Current, Contents/Engineering, Computing and Technology, Web of Science: Journal Citation Reports/Science Edition, Web of Science: Science Citation Index-Expanded (SciSearch®), Zentralblatt MATH.

Publication in the book under series 'Advances in Intelligent Systems and Computing' (Springer, Germany) will also be made available in SpringerLink digital library. The volumes of this series are submitted for inclusion to the leading indexing services including ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink.

Important Dates

Last Date for Submission: **Extended upto 25th November 2017**
Acceptance: **20th December 2017**
Camera Ready Paper Submission: **27th December 2017**
Registration Without Late Fee: **27th December 2017**
Registration With Late Fee: **5th January 2018**
Date of Conference: **23rd - 25th February 2018**

Registration

Registration Fee for Publication in Springer Book Series Advances in Intelligent Systems and Computing		
Academician/Industry Participant	Without late Fee (12 pages)	With Late Fee (12 pages)
Academician/Industry Participant (from Foreign)	$ 300	$ 350
Students (from Foreign)	$ 250	$ 300
Academician/Industry Participant (Host Country)	Rs 9000	Rs 10000
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Extra Paper Charges	Rs 6000 **(Host Country)**; 175 USD **(from Foreign)**	
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Registration Fee for Publication in Journal Special Issue
Journal of Intelligent and Fuzzy Systems, IOS Press, (SCI Impact Factor 2016: 1.261)
Indian Authors: INR 21,000 - Paper Length: 12 journal pages
Foreign Authors: USD 500 - Paper Length: 12 journal pages

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