

# INTERNATIONAL CONFERENCE ON NEW COMPUTER SCIENCE AND ENGINEERING TRENDS



Saturday and Sunday  
1- 2, July 2020

NCSET2020 is an International forum for new trends in Computer Science and Engineering. The conference welcome unpublished papers in different tracks in the fields of Computer Science and Engineering. NCSET2020 for the first time gathers research specialists from different backgrounds for a discussion meeting. It will build a fruitful relationship between the authors for future collaboration.

All papers are reviewed using a blind review process: authors declare their names and affiliations in the manuscript for the reviewers to see, but reviewers do not know each other's identities, nor do the authors receive information about who has reviewed their manuscript.

## IMPORTANT DATES

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Submission Deadline:

**Open**

**NCSET2020 welcomes original papers in the following areas, but not limited to:**

## **1. Networks**

- Computer and Network Security
- Computer networks
- Cross-border network-based information systems
- Design and performance evaluation of new network application and systems
- Designing, deploying and using networked systems in specialized sectors (i.e. Health, Education, Manufacturing)
- Emerging networking trends
- Enterprise networks
- Grid, cluster and Internet computing
- Internetworking and network protocols
- Mobile computing, mobile networks, and mobile agents
- Mobility and m-commerce issues
- Network architectures, services, switching, routing, and applications
- Network convergence
- Network management and security
- Network measurements, performance analysis and evaluation
- Network pricing issues and strategies
- Network Resource and QoS
- Optical network
- Outsourcing of networking and data communication services
- Peer-to-peer
- Pervasive Computing Environments
- Sensor, mesh, and ad hoc networks
- Standards and network interoperability issues
- Strategic use of networking technologies
- Success factors of networked systems
- Telecommuting, remote access and VPN
- IoT and IoE
- Smart City
- Advanced communication techniques
- Antenna technologies
- Communication theory
- Communications protocols
- Satellite techniques and theories
- Broadband & Photonics techniques
- Other related topics.....

## **2. Computational Intelligence**

- Fuzzy Computation
- Evolutionary Computation
- Neural Computation
- Ant colony optimization
- Artificial immune systems
- Bioinformatics and bioengineering
- Evolvable hardware and software
- Evolving neural networks and fuzzy systems
- Granular computing
- Hardware implementation
- Hybrid optimisation algorithms
- Image and signal processing
- Multi-objective optimization
- Memetic and hybrid algorithms
- Pattern recognition
- Robotic and control applications
- Swarm Intelligence
- Time series analysis
- Telecommunications
- Transportation systems
- Other related topics .....

## **3. Modeling, Simulation, and Control**

- Modeling method and optimization
- System modeling and simulation
- Software development and system simulation
- Modeling and dynamic analysis of mechanical system
- Computer information engineering and image processing
- Communication and information system
- Simulation Tools and Platforms
- Computational Modeling, Simulation, Optimization and Algorithm
- Optimization Methods
- Control Theory and Applications:
- Control Theory
- Linear Control
- Non-Linear Control

- Next generation intelligent control architectures and methods.
- Intelligent Control
- Adaptive Control
- Predictive Control
- Multiagent based planning, control and intelligence
- Distributed/decentralized intelligent control
- Neural networks, fuzzy logic and genetic algorithms
- Swarm intelligence, learning and control
- Intelligent control of networked dynamic systems
- Intelligent control of wireless ad hoc and sensor networks
- Embedded intelligent control
- Biological learning control systems
- Hybrid dynamical systems
- Petri nets
- Hierarchical control
- Discrete event systems
- Information-based models for control
- Distributed control systems
- System modeling, simulation and architectures
- Cybernetics
- Computer and microprocessor-based control
- Hierarchical control
- Instrumentation networks and software
- Field-buses
- Real-time systems control
- Other related topics..
- Energy Efficiency
- Software Engineering for IoT and IoE
- Smart City and Transportation
- Education and Learning
- Business, Finance and Management
- Biomedical Experiments and Simulations
- Healthcare Services and Health Informatics
- Encryption (All Aspects)
- Firewall, Access Control, Identity Management
- Experiments on Using Security Solutions and Proof-of-Concepts
- Intrusion and Detection Techniques
- Social Engineering and Ethical Hacking: Techniques and Case Studies
- Security
- Access Control
- Applied Cryptography
- Biometrics Security and Privacy
- Critical Infrastructure Protection
- Data Integrity
- Data Protection
- Database Security and Privacy
- Digital Forensics
- Digital Rights Management
- Ethical and Legal Implications of Security and Privacy
- Formal Methods for Security
- Human Factors and Human Behavior Recognition Techniques
- Identification, Authentication and Non-Repudiation
- Identity Management
- Information Hiding
- Information Systems Auditing
- Insider Threats and Countermeasures
- Intellectual Property Protection
- Intrusion Detection & Prevention
- Management of Computing Security
- Network Security
- Organizational Security Policies
- Peer-to-Peer Security
- Personal Data Protection for Information Systems
- Privacy
- Privacy Enhancing Technologies
- Reliability and Dependability
- Mobile Robots and Intelligent Autonomous Systems
- Modeling and identification
- Motion planning and learning

#### 4. IoT and Big Data

- Big Data Research
- Emerging Services and Analysis
- Internet of Things (IoT) Fundamentals
- Internet of Things (IoT) Applications
- Big Data Multi-Discipline
- Security , Privacy , and Trust
- IoT Technologies
- Analytics, Intelligence and Knowledge Engineering
- Data Center Enabled Technologies
- Networking and Social Networks
- Data Management for Large Data
- Machine to Machine Communications
- Risk Assessment
- Secure Software Development Methodologies
- Security and Privacy for Big Data
- Security and Privacy in Complex Systems

- Security and Privacy in Crowdsourcing
- Security and Privacy in IT Outsourcing
- Security and Privacy in Location-Based Services
- Security and Privacy in Mobile Systems
- Security and Privacy in Pervasive/Ubiquitous Computing
- Security and Privacy in Smart Grids
- Security and Privacy in Social Networks
- Security and Privacy in the Cloud
- Security and Privacy in Web Services
- Security and Privacy Policies
- Security Area Control
- Security Deployment
- Security Engineering
- Security in Distributed Systems
- Security Information Systems Architecture
- Security Management
- Security Metrics and Measurement
- Security Protocols
- Security Requirements
- Security Verification and Validation
- Sensor and Mobile Ad Hoc Network Security
- Service and Systems Design and QoS Network Security
- Software Security
- Trust Management and Reputation Systems
- Ubiquitous Computing Security
- Wireless Network Security

## 5. Security

### 6.

- Access Control
- Applied Cryptography
- Biometrics Security and Privacy
- Critical Infrastructure Protection
- Data Integrity
- Data Protection
- Database Security and Privacy
- Digital Forensics
- Digital Rights Management
- Ethical and Legal Implications of Security and Privacy
- Formal Methods for Security
- Human Factors and Human Behavior Recognition Techniques
- Identification, Authentication and Non-Repudiation
- Identity Management
- Information Hiding
- Information Systems Auditing
- Insider Threats and Countermeasures
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- Trust Management and Reputation Systems
- Ubiquitous Computing Security
- Wireless Network Security

## 7. Advanced Robotics

- Aerial and underwater robotics
- Bio-inspired robotics
- Cable robots, cognitive robotics
- Cognitive Approach for Robotics
- Collaborative robotics
- Collective and Social Robots
- Control and Supervision Systems
- Human-Robots Interfaces
- Humanoid Robots

- Humanoids
- Intelligent robotics and systems
- Legged robots, manipulation
- Mechatronics systems
- MEMS
- Micro- and nano-robots
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- Network Robotics
- Opto-mechatronics
- Parallel robotics
- Probabilistic robotics
- Reconfigurable robots
- Robot calibration
- Robot control
- Robot Design, Development and Control
- Robotic platforms
- Robust control and Process control
- Service and field robotics
- Social robotics
- Vision, Recognition and Reconstruction
- Visual robotics
- Wheeled mobile robots
- Other related topics

## 8. Computational neuroscience

- Single-Neuron Modelling
- Axonal Patterning
- Sensory processing
- Memory and synaptic plasticity
- Behaviours of networks
- Neural Coding
- Neuro-Informatics
- Neural Engineering
- Cognitive ability of nervous system

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## Publications

All of the accepted papers will be submitted to Springer for indexing; besides, extended versions will be submitted to ISI and Web of Science Journals. Some of the journals are listed on the conference website.

<http://worldascience.com/ncset2020>

## Special Sessions :

<http://worldascience.com/ncset2020/sessions.html>

## Submission

The submission process is done through Easy chair at :

<https://easychair.org/conferences/?conf=ncset2020>

The submission template could be found at the conference website:

<http://worldascience.com/ncset2020/index.html#Submission>

## Additional Information

Please feel free to contact the conference organizers at: [ncset2020@worldascience.com](mailto:ncset2020@worldascience.com)