

# International Conference on Computational Intelligence & Internet of Things (ICCIoT) 2018

14<sup>th</sup>– 15<sup>th</sup> December, 2018

National Institute of Technology Agartala, Tripura, India

Special Session on:

Trends and Future Challenges in Computational Intelligence and Internet Of Things in wireless sensor network for next Generation Smart Cities.

Conference Proceedings:

ALL ACCEPTED & PRESENTED papers will be included in ELSEVIER-SSRN Digital Library.



Conference Website

<http://icciot2018.iaasse.org/index.html>

Paper Submission Link

<https://easychair.org/conferences/?conf=icciot2018>

Important Dates

**Submission**

Acceptance

Registration

Camera Ready

Conference

*August 25, 2018 September 10, 2018*

*October 20, 2018*

*November 20, 2018*

*November 20, 2018*

*December 14-15, 2018*

Call for Paper

**Special Session Name:** Emerging Trends and Future Challenges in Computational Intelligence and IoT in wireless sensor network for next Generation Smart Cities.

**Session Chair:** Dr. Sudipta Chakraborty, Director, Techno India Group  
Dr. S. C. Bera Dept. of Applied Physics, Calcutta University

**Co- Chair:** Dr. Baby Bhattacharya, NIT Agartala  
Dr. Srimanta Ray, NIT Agartala

**Convener:** Prof.(Dr.) Tanmay Dutta, Principal, Chaibasa Engineering College  
Mr. Debabrata Raha, Asst. Prof, Chaibasa Engineering College

Mr. Saunak Bhattacharya, Asst. Prof , Chaibasa Engineering College  
Mr. Subhadip Pan, Asst. Prof , Chaibasa Engineering College  
Mr. Bappaditya Jana , Asst. Prof , Chaibasa Engineering College

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The proposed International Conference on Computational Intelligence & Internet of Things (ICCIoT), 2018 will be held at National Institute of Technology, Agartala, India to enable researchers build connections between different digital technologies based on Computational Intelligence and Internet of Things (IoT).

Smart sensors can collaborate directly with machine without human involvement to automate decision making or to control a task using Computational Intelligence. Smart technologies including green electronics, green radios, fuzzy neural approaches and intelligent signal processing techniques play important roles for the developments of the wearable health care systems. This conference aims at providing a forum to discuss the recent advances on enabling technologies in Computational Intelligence and its applications for IoT.

Please consider submitting to this conference. We are interested in the entire range of concepts from theory to practice, including case studies, works-in-progress, and conceptual explorations.

#### **The objectives of the special session:**

The Internet of Things (IoT) is spectacularly altering our world. 21.000 million Devices will be connected to the Internet by 2021, and 16.000 of them will be part of the Internet of Things. The usage of many different connected sensors (temperature, humidity, pressure, vibration, air quality, etc.) in different fields (plants, animals, geological phenomena, cities, homes, etc.) will enable the collection of a vast amount of data, that will be transformed into information and intelligently into knowledge. An insightful impact on our living, business, actions, operations, optimizations and ways of entertainment had been observed with the aid of technology to sense, forecast and manage the physical world both personally and professionally. The marketplace for IoT, sensors, wearable's, clouds, Big data, infrastructure, and associated services is getting higher and bigger at an exceptional rate at present trends. This Special Session of the conference is meant to discuss the state-of-the-art developments, challenges and unsolved open problems in the field of Computational Intelligence & Internet of Things. It will also provide a platform to students, scientists, faculty members and research professionals to interact, present and get reflections on their work. This Special Session will provide insight of the problem solving abilities of tools and techniques.

We invite research papers from Academics, Researchers, Business Leaders, Experts and Executives from the industry to submit their original and unpublished work for the conference.

#### **Topics of Interest:**

Topics of interest include, but are not limited to:

- ✓ IoT Architectures (Things-Centric, Data-Centric and Service-Centric Architectures)
- ✓ IOT based humidity and temperature monitoring
- ✓ 5G Networks and IoT
- ✓ IOT in WSN
- ✓ IoT Security and Trust

- ✓ IoT and Personal Data Protection
- ✓ Sensors Data Management, IoT Mining and Analytics
- ✓ Mobile and Cloud-Based IoT Designs
- ✓ Big Data and IoT on the Cloud
- ✓ IoT based Embedded and Information Systems.
- ✓ IoT Enabling Technologies (Sensor Networks and Machine-Type Communication)
- ✓ Hybrid Energy Efficient Intelligent Models using Artificial Intelligence in IoT for Industry
- ✓ Innovative Deep Learning Architectures for Optimizing Time Series Computational Data in IoT
- ✓ Energy Efficient Machine Learning and Data Analytics Techniques in IoT for Industry
- ✓ Fuzzy Fusion of Sensors, Data and Information
- ✓ Knowledge-Based Discovery with Evolutionary Algorithms for QoS in IoT devices
- ✓ Multi-Objective IoT System Modelling and Analysis—Performance, Energy, Reliability, Robustness
- ✓ Computational Resource Management using Neural Network Modelling for IoT Systems.
- ✓ Quality aspects in the IoT (e.g., runtime dependability, assurances, validation, verification, privacy, security)
- ✓ State-of-practice, experience reports, industrial experiments, and case studies in the IoT