3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2018

Malaviya National Institute of Technology (MNIT), Jaipur

March 26-27, 2018

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

Paper Submission Deadline: December 25, 2017

Paper submission Link: https://easychair.org/conferences/?conf=iciotct2018

Conference Website: http://iciotct2018.iaasse.org/

Call for Papers

Special Session: Challenges and Perspectives in the CAD System Design and Healthcare Applications

Session Chair: Dr. RS Anand, Dr. Deep Gupa,
Co-chair/Convener/Co-convener (if any): Dr. Deep Gupta, Dr. SL Rao
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The **ICIotCT 2018** conference is a platform to discuss advances in Internet of Things (IoT) and connected technologies (various protocol, standards etc.). The recent adoption of a variety of enabling Wireless communication technologies such as RFID tags, BLE, ZigBee, etc. and embedded sensor and actuator nodes, and various protocols such as CoAP, MQTT, DNS etc. have made IoT to step out of its infancy. Now smart sensors can collaborate directly with machine without human involvement to automate decision making or to control a task. Smart technologies including green electronics, green radios, fuzzy neural approaches and intelligent signal processing techniques play important roles for the developments of the wearable healthcare systems. This conference aims at providing a forum to discuss the recent advances on enabling technologies and applications for IoT.

On the eve of the occasion of **ICIOTCT-2018** a special session on **"**Challenges and Perspectives in the CAD System Design and Healthcare Applications**"** will be conducted by Dr. Deep Gupta, Dr. SL Rao , as session chair. Original contributions are solicited for the special session "Challenges and Perspectives in the CAD System Design and Healthcare Applications" to be held at ***ICIOTCT-2018***.

This special session is based on the various challenges that are faced during the computer-aided diagnostic (CAD) system design. Such types of systems are computer programs or models that are utilized to diagnose various lesions and abnormalities in different tissues using multidimensional images generated from different medical imaging modalities. The CAD system design is clinically significant that helps to the radiologists by providing a second opinion to improve diagnostic view and its accuracy. In recent years, several advancements have been done in the area of medical imaging techniques to design the different CAD systems for breast cancer, lung cancer, and brain tumor, and brain hemorrhage, mitral and aortic regurgitation. The main aim of this special session is to focus on recent advancements in the field of the CAD system design for healthcare applications and its challenges and perspectives.

The objectives of the special session are as follows:

- Discussion on a research platform to improve the quality and intelligibility of CAD system design, and their applications in the healthcare area.
- To take the research forward in the existing diagnostic system and to identify key issues that needs to be addressed in real implementation of these CAD systems.

- To explore the conceptual understandings in the area of Internet of Things in medical and healthcare applications.
- Focus on state-of-the-art algorithms in medical and healthcare applications.
- Techniques for medical image and signal enhancement using innovative algorithms.
- Machine learning and its applications for algorithm design for classification and disease identification.
- Knock around the design and development of the Internet of Things based algorithm for medical and healthcare applications.
- To discuss various issues involved with challenges and perspectives in the CAD system design and healthcare applications.

Topics of Interest: The areas of coverage for this special session are: Papers presenting original research related to the challenges and perspectives in the CAD system design and healthcare applications are sought. The Topics of interest include, but are not limited to:

1. *Medical signal and image enhancement*
2. *Echocardiographic image processing*
3. *Segmentation methods of biomedical images*
4. *Multimodal medical image fusion*
5. *Automatic lesion detection*
6. *Ultrasound, CT, MR and Nuclear image processing*
7. *Microscopic imaging*
8. *Endoscopic imaging*
9. *Image quality assessment*
10. *Biomedical image retrieval*
11. *Extraction of diagnostic features*
12. *CAD Design for clinical applications*
13. *CAD system design on biomedical signal and images*
14. *Assessment of CAD system for healthcare applications*
15. *Classification of clinical diseases*

Paper Submission

Authors wishing to submit their papers must refer to the website, for paper structuring and formatting guidelines in detail, at http://iciotct2018.iaasse.org/international-conference-on-internet-of-things-and-connected-technologies-iciotct-2018-submission-publication.
Only electronic submissions will be considered. Papers submitted by e-mail will not be considered.

Publication

The conference aims at carrying out double blind review process. The papers submitted by the authors will be assessed on the basis of their technical suitability, scope of work, plagiarism, novelty, clarity, completeness, relevance, significance and research contribution.

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Deadlines to Remember

Submission	**December 25, 2017**	**Acceptance**	**February 05, 2018**
Camera Ready Submission	**February 15, 2018**	**Registration** (for inclusion of Paper in Proceedings)	**February 15, 2018**

For any other query please visit our conference website **http://iciotct2018.iaasse.org/home** or write us back at ***iciotct@iaasse.org***