

## iCAST 2017 Special Session

Session Title:

### **Pattern Analysis for Context Awareness (PACA)**

Session Chair with Contact Information:

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Session Organizers:

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#### **Aim:**

We are organizing a special session on “Pattern Analysis for Context Awareness” for icast-2017, which will be held in Chaoyang University of Technology, Taichung city, in Taiwan on Nov. 8-10, 2016. Pattern recognition and analysis technologies make many intelligent of application systems such as intelligent manufacturing, smart home, smart city and so on. To realize people and objects relationships from environment pattern, even the exchange of dialogue between people and objects, and among objects and objects are dependent on different types of data collection and analysis which are very important for current research trends in computer sciences. The collections pattern maybe images type or numeric sensors’ data. So that the object of special session PACA will contact with people's lives can become intelligent awareness. With the continuous deployment of pattern analysis technologies, hope many important awareness services will be proposed. Those patterns can be analysed to reveal interesting relationships, detect events and find unforeseen and unknown patterns for context awareness. The goal of this special issue is to provide an opportunity for researchers, engineers and scientists to publish their research results related to the innovative applications of intelligent data analysis for context awareness. Topics of interest include, but are not limited to:

1. Pattern analysis for context awareness
2. Pattern analysis technologies on living of context awareness
3. Image processing for context awareness
4. Mining pattern data for context awareness
5. Faces recognition for context awareness
6. Voices recognition for context awareness
7. Mobile pattern analysis for context awareness
8. The recommender system based on pattern mining and analysis
9. Reasoning with incomplete or uncertain patterns for context awareness
10. Deep learning for pattern analysis on context awareness applications
11. Intelligent computing and its applications on pattern analysis for context awareness
12. Pattern analysis on saving power for context awareness
13. Multi-media pattern analysis for context awareness
14. Edge computing on pattern analysis for context awareness

15. Other emerging approaches to innovative computing related pattern analysis for context awareness

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