International Conference on: Communications, Management and Information Technology

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**Special Session Proposal**

**Organizer Information**

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**Session Information**

Tentative Title: Signal Processing for Cognitive Networks

Summary of the special session:

Cognitive radio is the chosen technology for dynamic spectrum access, which may mitigate the radio spectrum scarcity problem and is regarded as one of the most promising technologies for the future wireless communications. However, cognitive wireless networking is in the early stages of research and development, and to achieve full transmission over a wireless network, there are still technical, economical, and regulatory challenges. Signal processing plays a major role in designing cognitive wireless networks, mainly in spectrum sensing to identify spectral opportunities. The objective of this Special Session is to provide a collection of high-quality research papers in signal processing for cognitive radio networks to address some of the basic problems in the area.