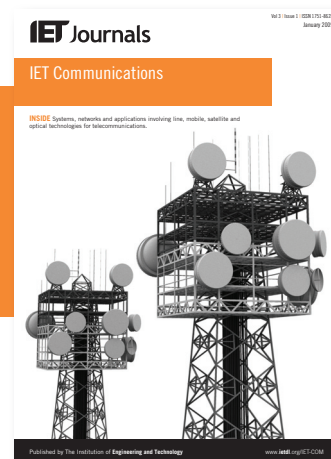


## IET Communications Call for Papers

### SPECIAL ISSUE ON: Cognitive Communications



Future radio communication networks will be heterogeneous in nature and will need to dynamically adapt to changing needs. This will require networks, systems and devices to be increasingly intelligent and cognitive. This special issue deals with subject of cognitive communications – the application of cognition to wireless systems in general sense, a field which incorporates techniques from several disciplines, including distributed artificial intelligence, electromagnetics, regulatory policy and economics, in addition to the wireless communication systems. Thus, encompasses more than just the standard areas of cognitive radio and cognitive networks including speculative areas such as cognitive environments incorporating frequency selective surfaces (FSS) and cognitive acoustics.

#### Topics of interest within the area of cognitive communications include, but are not limited to:

- applications of distributed artificial intelligence
- cognitive routing metrics
- smart environments incorporating frequency selective surfaces (FSS)
- cognitive acoustics
- cognitive wireless sensor networks/systems
- reduced complexity cognitive radio
- link maintenance and robust cognitive radio
- dynamic spectrum access management
- cognitive physical layers
- cognitive femtocells
- standardisation and regulatory aspects
- spectrum charging/auctions in cognitive networks
- self-organising backhaul networks
- cross-layer design issues
- cognitive mesh, ad hoc and body networks
- fast and wideband spectrum sensing
- software defined and reconfigurable radio
- sensing and measurement for cognitive radio
- Cognitive Medium Access Control/Etiquette protocols
- security in cognitive radio & networks
- 'green' cognitive radio
- testbed and trials

All papers must be submitted through the journal's Manuscript Central system:  
<http://mc.manuscriptcentral.com/iet-com>

#### Proposed publication schedule:

**Deadline for submission of  
papers:** 01 July 2010

**Authors to receive a  
1st decision by:**

30 September 2010

**Final notification of acceptance:**  
31 January 2011

**On-line and print publication:**  
Q1/Q2 2011

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