

The 6th International Wireless Communications & Mobile Computing

Conference (IWCMC 2010)

June 28 – July 2, 2010

Caen, France

Communication and Information Theory Symposium

<http://ei.hust.edu.cn/teacher/jiangtao/conference.html>

Scope and Motivation

The Communication and Information Theory Symposium aims to provide the state-of-the-art research towards understanding the fundamentals of communication and information theories. The symposium welcomes original research in the general areas of communication and information theories, with focus on source coding, channel coding, modulation, detection and estimation, joint source-channel coding, multiple-input multiple-output systems, vehicular communication, cooperative communications, signal processing as applied to information theory for mobile/cellular communications, cognitive radios, advanced multiple access strategies, and security etc. Research results on communication and information theory that impact other disciplines such as optical communication, networking, genetics, cloud computing, box computing and bioinformatics, and quantum information processing are also encouraged.

Accepted papers will be published in the conference proceedings, which will appear in the IEEE Xplore or ACM databases and indexed by Engineering Index (EI). Selected papers will be further considered for possible publication in one of two special issues of the Wiley Journal of "Wireless Communications and Mobile Computing (WCMC)," and "International Journal of Autonomous and Adaptive Communications Systems (IJAACS)".

Topics of Interest

The Communication and Information Theory Symposium welcomes previously unpublished, original contributions in, but not limited to, the topical areas listed below. Papers dealing with fundamental problems associated with the topical areas and describing novel uses of communication and information theory to solve these problems are of special interest.

Channel Coding/ Coded Modulation/Capacity/Estimation

Communication Theory/Techniques in Sensor and Ad-Hoc Networks

Communication Theory/Techniques for Biological Systems

Cognitive Radios

Cooperative Communications, including Relay Assisted Communications

Compression, Lossless and Lossy

Cryptography and Data Security

Dynamic Spectrum Management

Detection and Estimation

Diversity and Fading Countermeasures

Fountain Coding
Fiber Optical Communications and Free-Space Optical Communications
Information theory and statistics
Information theory in networks
Interference Management, Cancellation, Avoidance
Iterative Coding techniques, including Turbo codes and LDPC codes
Joint Source/Channel Coding
Machine learning for Communications
Multi-carrier Systems, including OFDM
Multiple-Input Multiple-Output Techniques
Multiuser Systems and Techniques
Network Coding
Quantum information theory/Communications
Sequences and complexity
Shannon theory
Source Coding
Space-time Coding and Processing
Synchronization
Security of Communications
Signal Processing for Communications
Spread Spectrum Communications
Ultra-Wideband Communications

Submission Guidelines:

Prospective authors are invited to submit technical papers electronically through EDAS (<http://edas.info/>). Please select IWCMC 2010 – Communication and Information Theory Symposium in EDAS during submission. All submissions should be written in English with a maximum paper length of five (5) printed pages (10-point font) including figures without incurring additional page. Standard IEEE Conferences templates for Microsoft Word or LaTeX formats can be found at

<http://www.ieee.org/web/publications/pubservices/confpub/AuthorTools/conferenceTemplates.html>.

Important Dates:

Paper Submission Deadline: 15 December 2009

Paper Acceptance Notification: 15 March 2010

Camera-ready Paper Submissions: 1 April 2010

Registration Deadline for Authors: 1 April 2010

Chairs:

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