

Ninth International Symposium on Communication Theory and Applications (ISCTA '07)

15th - 20th July, 2007, Ambleside, Lake District, UK



First Call for Papers

A major objective of the Symposium will be to pursue the progression from communication and information theory through to the implementation, evaluation and performance of practical communication systems of various types. You are invited to submit original papers in the following and related areas:

Digital Transmission and Recording

Source and Channel Coding
Modulation, Detection, Channel Estimation
Channel Modelling, Synchronisation
Optical and Magnetic Recording

Special Topics in Channel Coding, Source Coding, Information Theory

Turbo Codes, Low Density Parity Check Codes
Source Coding and Data Compression
Privacy, Secrecy and Security
Multi-Functional Coding
Sequences and Arrays
Fountain, LT, etc. codes

Detection Techniques

Vector Detection, Multiuser Detection
Combined Equalisation, Decoding and Channel Estimation
Iterative (Turbo) Schemes

Broadband Techniques

Ultra Wideband
Fixed Wireless Access

Space-Time Techniques

Information-Theoretic Aspects, Channel Capacities
Space-Time-Coding, Signal Constellations
Spatial Spreading, Linear Dispersion Codes
MIMO Detection and Channel Estimation
MIMO Precoding, Writing on Dirty Paper
Time Reversal

Systems, Multiple Access, Protocols

Communication System Architectures
3G and Beyond-3G Wireless Communication Systems
Sensor Networks
Ad Hoc Networks
Multiple Access Techniques, Protocols
Multimedia Networking, wireless e-learning, e-commerce and e-health

Realisation

DSP for Communication Systems
MIMO Demonstrators
Complexity Considerations
Implementation of LDPC decoders

Fusion of Communication and Location

GNSS-based
Probabilistic algorithms
Applications

The deadline for the submission of papers for consideration is Friday 2nd March, 2007. Papers should not exceed 6 pages in length, including figures. Please submit your paper to:

Professor Bahram Honary
Department of Communication Systems
Lancaster University
Lancaster LA1 4YR UK
Tel: +44 (0) 1524 510398
Fax: +44 (0) 1524 510493
E-mail: b.honary@lancaster.ac.uk

or Professor Rolando Carrasco
School of Electrical, Electronic and Computer Engineering
University of Newcastle upon Tyne
NE1 7RU, UK
Tel: + 44 (0)191 222 7332
Fax: +44 (0)191 222 8180
E-mail: r.carrasco@ncl.ac.uk

You will be notified of acceptance by 20th April, 2007. There will then be an opportunity to revise your paper, taking into account any comments by the referees, and to put it into the required format for the Symposium Proceedings. The deadline for receipt of your revised paper is 18th May, 2007.

Organising & Program Committee

Bahram Honary (UK)
Michael Darnell (UK)
Lina Fagoonee (UK)
Peter Hill (UK)
Garik Markarian (UK)
Valdemar da Rocha (Brazil)
Javier Garcia-Villalba (Spain)
Izzat Darwazeh (UK)

Mario Blaum (USA)
Pingzhi Fan (PR China)
Eric Gabidulin (Russia)
Jurgen Lindner (Germany)
Robert McEliece (USA)
Ismael Soto (Chile)
Han Vinck (Germany)
George Kolev (Russia)

Rolando Carrasco, UK (Technical Chair)
Paddy Farrell (UK)
Lajos Hanzo (UK)
Shu Lin (USA)
Jorge Pereira (Belgium)
Martin Tomlinson (UK)
Tad Wysocki (Australia)
Nigel Wall (UK)

The Symposium Venue is St. Martin's College, Ambleside, Cumbria, UK, where all the presentations, most meals, and social events, will take place. Ambleside is in the famous and very beautiful English Lake District, and there will be opportunities for walks and excursions during the Symposium.

For information on registration fees and accommodation, please consult our website: <http://www.hwcomms.com/iscta07.htm> or <http://www.dcs.lancs.ac.uk>



Rinicom Ltd