



Collective **inspiration**

Cognitive Radio Communications

European activities and progress

Monday, 4 October 2010. IET London: Savoy Place

- discover the wealth of applications of cognitive radio technologies
- network with the industry's regulators, leading developers and researchers
- get up to speed with the latest advances in cognitive radio communications technology
- converse with your peers and put your technical questions to our panel of prestigious invited speakers
- learn about the Framework 7 Programmes

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SEMINAR





Cognitive Radio Communications

About the event

This one day seminar will be action packed, with a line up of speakers from around the world who are leaders in the field of Cognitive Radio. Attend to hear from key technology leaders and UK Regulators on latest developments from Framework 7 Programmes and Future Enabling Technologies research programmes.

This seminar brings together 'the knowledge triangle' - research, education and innovation. Through our Call for Posters, researchers and students in the cognitive radio field are encouraged to present and discuss their exploratory work to industry regulators, manufacturers, purchasers and business leaders. There will be a buzzing exhibition area with a 'show and tell' feel featuring technical kit demonstrations.

Key topics to be debated include:

- Framework 7 Programmes
- spectrum management and efficiency
- applications of cognitive radio - now and next
- reconfigurable, adaptive, cost-sensitive and portable antenna design
- regulatory parameters for cognitive radio

Sponsorship opportunities

Raise your profile at the Cognitive Radio Communications seminar by sponsoring or exhibiting your technical kit. To discuss the opportunities available and develop your bespoke package please contact Mandy Mercer:

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Organised by

This seminar is produced for the IET Antennas and Propagation Network.

To find out more about the network and how you can get involved for free, visit:

www.theiet.org/antennas-propagation

Who should attend?

All those involved with the Framework 7 Programmes or who have an interest in cognitive radio communications including:

- communications consultants/managers
- technical directors
- business development managers
- wireless solutions professionals
- researchers and students in the cognitive radio field

PROGRAMME – Monday, 4 October 2010

- 09:00 **Registration and refreshments**
- 09:30 **Chairman's welcome and opening remarks**
Dr Anil Shukla, Head - RF Operating Environments, **QinetiQ**, UK
- 09:40 **Overview of European Commission Framework Programme 7 (FP7) and Future Enabling Technologies (FET) research programmes related to cognitive radio**
Paul Hearn, Senior Scientific Officer Future Emerging Technologies (FET) **EUROPEAN COMMISSION, DIRECTORATE-GENERAL FOR INFORMATION SOCIETY AND MEDIA**, Belgium
Professor Petri Mähönen, Head, Institute of Wireless Networks, **AACHEN UNIVERSITY**, Germany
- 10:20 **Regulation and policy**
establishing the working parameters around cognitive radio – the UK and EU perspective
Professor William Webb, Head of R&D, **OFCOM**, UK
- 10:50 **Refreshments, networking, poster exhibition and technical kit demonstrations**
- 11:20 **Television White Space applications and ongoing trials**
Andrew Stirling, Head of Spectrum Policy Europe, **MICROSOFT INC.**, UK
Tim Regan, Research Software Development Engineer, **MICROSOFT RESEARCH LTD**, UK
- 11:50 **Managing the challenges of implementing cognitive radio**
the challenges and opportunities posed by cognitive radios to address the radio frequency challenges
Frederic Villain, Principal IC Architect, **NXP**, France
- 12:20 **Lunch, networking, poster exhibition and kit demonstrations**
- 13:45 **Maximising the cognitive radio capabilities of adaptive radio antennas**
case studies from the CROWN consortium
Professor Constantinos B Papadias, Broadband Wireless & Sensor Networks,
ATHENS INFORMATION TECHNOLOGY and Adjunct Professor, Information Networking Institute,
CARNEGIE MELLON UNIVERSITY, USA
- 14:15 **Creating reconfigurable adaptive antennas for cognitive radio applications considering cost and portability**
Professor Peter Hall, **UNIVERSITY OF BIRMINGHAM**, UK
- 14:45 **Refreshments, networking, poster exhibition and technical kit demonstrations**
- 15:15 **Overview of spectrum sensing techniques for cognitive radio**
Dr Ying-Chang Liang, Senior Scientist, **INSTITUTE FOR INFOCOMM RESEARCH**, Singapore
- 15:30 **Advances in spectrum sensing made within CROWN**
Dr Tharmalingam Ratnarajah, Principal Research Engineer, **QUEEN'S UNIVERSITY BELFAST**, UK
- 16:00 **Open floor discussion**
commercial applications of cognitive radio technologies – next steps for researchers,
manufacturers and retailers of this technology
- 16:45 **Chairman's closing remarks**
- 17:00 **Close**

Did you know you can find **talk synopses, updates** and more
on our event website: www.theiet.org/cog-radio

Programme correct at time of print; for the most up to date programme, please visit the web site.

To register for this event visit www.theiet.org/cog-radio

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Event Prices	Excl.VAT	+VAT	Total
IET Member	£299.00	£52.33	£351.33
Non Member	£379.00	£66.33	£445.33
Student	£120.00	£21.00	£141.00
Poster Presenter	£250.00	£43.75	£293.75

3 for 2 group rates are available - please see the web site for more details.

Who are we?

The Institution of Engineering and Technology was formed in 2006 from the IEE and IIE and now has over 150,000 members in 127 countries around the world. As a member of the world's pre-eminent knowledge sharing network you'll experience the passion, curiosity and inspirational thinking of engineering and technology professionals from around the world. You'll also benefit from discounts on hundreds of IET events each year - just like this one!

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in tune with future trends*”

Gavin Meerwarld - IET member

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THREE EASY WAYS TO REGISTER FOR THIS EVENT

1. ONLINE www.theiet.org/cog-radio

2. PHONE 0845 519 3860

3. EMAIL events1@theiet.org

Printable booking forms are available to download from our web site.

