

TAPAS 2006 Program**5 August 2006 - Boston, MA**

8:30-9:00 AM	Coffee, Registration, Introductory Remarks by the Chairs
9:00-10:00 AM	Opening Keynote Preston Marshall, Program Manager, DARPA ATO <i>"Grand Challenges in Dynamic Spectrum Access Networks"</i>
10:00 - 11:00 AM	Session I: Overview and Framework for DSA (Chair: Anant Sahai) <ol style="list-style-type: none"><i>Chicago Spectrum Occupancy Measurements & Analysis and a Long-term Proposal</i> Dennis Roberson , Cynthia Wood, Mark McHenry<i>Fundamental Design Tradeoffs in Cognitive Radio Systems</i> Anant Sahai, Rahul Tandra<i>Between Two Utopias: The Economic and Technological Foundations of the Property Rights and Commons Models for Spectrum Policy</i> Andrea Martens , Howard Shelanski
11:00 - 11:45AM	Session II: Secondary Sharing of TV Spectrum (Chair: Prof. Joe Evans) <ol style="list-style-type: none"><i>Cognitive PHY and MAC Layers for Dynamic Spectrum Access and Sharing of TV Bands</i> Carlos Cordeiro<i>Performance of Power Detector Sensors of DTV Signals in IEEE 802.22 WRANs</i> Sai Shankar Nandagopalan<i>Reliable Open Spectrum Communications Through Proactive Spectrum Access</i> Haitao Zheng
11:45 AM -12:55 PM	Poster Session <ol style="list-style-type: none"><i>A Platform for Dynamic Spectrum Access Network Experimentation</i> Linda Doyle<i>Impact of Exclusion Region and Spreading in Spectrum-sharing Ad hoc Networks</i> Rekha Menon, R. Michael Buehrer<i>Spectrum Sharing for Directional Systems</i> Joseph B. Evans, James Roberts<i>Evaluation of Cross-Layer Interactions for Reconfigurable Radio Platforms</i> Troy Weingart, Douglas Sicker and Dirk Grunwald<i>Spatio-Temporal Spectrum Management Model for Dynamic Spectrum Access Networks</i> László Kovács, Vidács Attila<i>A New Pricing Model for Next Generation Spectrum Access Networks</i> Elias Aravantinos, Kevin Ryan and Milind Buddhikot
1:00 - 2:00 PM	Keynote II: Prof. Clark T. Nguyen, University of Michigan, Ex-Program Manager, DARPA MTO,

	<i>"Advances in RF MEMS and New RF Front-end Architectures"</i>
2:05 - 3:30 PM	<p>Policy panel</p> <p>"The Multidisciplinary Research Challenges for Dynamic Spectrum Access Markets"</p> <p>Participants: Bill Lehr (MIT, Economist & Moderator) Yochai Benkler (Yale, Law) Paul Kolodzy (Kolodzy Consulting) Preston Marshall (DARPA, Technologist) Peter Tenhula (Shared Spectrum, Policy) Dave Reed (MIT, Technologist)</p>
3:30 - 4:00 PM	Posters and Coffee Break
4:00 - 6:00 PM	<p>Session III: Spectrum Occupancy: Measurements and Modeling (Chair: Dr. Carlos Cordeiro, Philips Research)</p> <ol style="list-style-type: none"> <i>Experimental Study of Spectrum Sensing based on Energy Detection and Network Cooperation</i> Danijela Cabric <i>Wideband Spectrum Probe for Distributed Measurements in Cellular Band</i> Nilay Shah, Theodoros Kamakaris, Ufuk Tureli and Milind M. Buddhikot <i>Dynamic Spectrum Access in WLAN Channels: Empirical Model and Its Stochastic Analysis</i> Stefan Geirhofer, Brian M Sadler, Lang Tong <p>Session IV: Modulation and Transmission for DSA (30 mins) (Chair: Dr. Carlos Cordeiro, Philips Research)</p> <ol style="list-style-type: none"> <i>Comparative Study of Frequency Agile Data Transmission Schemes for Cognitive Radio Transceivers</i> Rakesh Rajbanshi, Joseph B Evans, Alexander M Wyglinski, Qi Chen, Gary Minden <i>Increasing Spectral Efficiency by Managing Adjacent Channel Interference</i> Tobias Renk
6:00 - 6:30 PM	Wrap up discussion