

WCNC 2005 Technical Program
Phy/Mac Track

Session	Day	Date	Start	End	Paper #	Title	Authors	Paper ID
PHY01: MIMO-OFDM Signal Processing	Tue	15-Mar	9:00	10:30	PHY01-1	Training Signal Design for MIMO OFDM Channel Estimation in the Presence of Frequency Offsets	Hlaing Minn (University of Texas at Dallas, USA), Naofal Al-Dhahir (University of Texas at Dallas, USA)	1568940959
					PHY01-2	Frequency offset tracking for MIMO OFDM systems using pilots	Magnus Sandell (Toshiba TRL, United Kingdom), Darren McNamara (Toshiba Research Europe Ltd, United Kingdom), Steve Parker (Toshiba Research Europe Ltd, United Kingdom)	1568941152
					PHY01-3	Design of Optimal Pilot-tones for Channel Estimation in MIMO-OFDM Systems	Zhongshan Wu (Louisiana State University, USA), Jianqiang He (Louisiana State University, USA), Guoxiang Gu (Louisiana State University, USA)	1568942098
					PHY01-4	Synchronization Algorithms for MIMO OFDM Systems	En Zhou (Beijing University of Posts & Telecommunications, P.R. China), Hui Zhao (Beijing University of Posts & Telecommunications, P.R. China), Wenbo Wang (Beijing University of Posts and Telecommunications, P.R. China)	1568941766
PHY02: OFDM I	Thu	17-Mar	14:00	15:30	PHY02-1	Subspace-Based Noise Variance and SNR Estimation for OFDM Systems	Ya Jing (Southeast University, P.R. China)	1568940522
					PHY02-2	OFDM Phase Noise Cancellation via Probability Inference	Darryl Dexu Lin (University of Toronto, Canada), Yi Zhao (University of Toronto, Canada), Teng Joon Lim (University of Toronto, Canada)	1568941912
					PHY02-3	A Programmable Baseband Receiver Platform for WCDMA/OFDM Mobile Terminals	Lasse Harju (Tampere University of Technology, Finland), Jari Nurmi (Tampere University of Technology, Finland)	1568941079
PHY03: OFDM II	Thu	17-Mar	16:00	17:30	PHY03-1	Techniques for Suppression of Intercarrier Interference in OFDM Systems	Tiejun Wang (University of California, San Diego, USA), John Proakis (University of California, San Diego, USA), James Zeidler (Univ. of California, San Diego, USA)	1568941928
					PHY03-2	A New Multicarrier Transceiver Based on the Discrete Cosine Transform	Naofal Al-Dhahir (University of Texas at Dallas, USA), Hlaing Minn (University of Texas at Dallas, USA)	1568940809
					PHY03-3	Antenna-Selective Transmit Diversity Technique for OFDM-based WLANs with Dual-Band Printed Antenna	Ichiro Seto (Toshiba Corporation, Japan)	1568941473
PHY04: 802.11 MAC I	Tue	15-Mar	9:00	10:30	PHY04-1	A Throughput Optimization and Transmitter Power Saving Algorithm for IEEE 802.11b Links	Tianmin Mo (Virginia Polytechnic Institute and State University, USA), Charles Bostian (Virginia Tech, USA)	1568940554
					PHY04-2	Adaptive IEEE 802.11 DCF scheme with knowledge-based backoff	Srikant Kuppa (University of Texas at Dallas, USA), Ravi Prakash (University of Texas at Dallas, USA)	1568942223
					PHY04-3	Achieving Scalable Performance in Large-Scale IEEE 802.11 Wireless Networks	Ping Chung Ng (The Chinese University of Hong Kong, Hong Kong), Liew Soung Chang (Chinese University of Hong Kong, Hong Kong), Li Bin Jiang (Chinese University of Hong Kong, Hong Kong)	1568942202
					PHY04-4	A Low-Power Time Division Multiple Access MAC Protocol for 802.11 Wireless Networks	Jim Snow (Oregon Graduate Institute, USA), Wu-chi Feng (Portland State University, USA), Wu-chang Feng (Portland State University, USA)	1568942196

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PHY05: 802.11 MAC II	Tue	15-Mar	14:00	15:30	PHY05-1	Why RTS-CTS is not your ideal wireless LAN multiple access protocol	Joao Sobrinho (Instituto de Telecomunicacoes, Instituto Superior Tecnico, Portugal), Roland Haan (Instituto de Telecomunicações, Lisboa, Portugal), Jose Brazio (Lisbon Technical University, Portugal)	1568941455
					PHY05-2	Macrodiversity Packet Combining for the IEEE 802.11a Uplink	Shi Cheng (West Virginia Department, USA), Matthew Valenti (West Virginia University, USA)	1568942238
					PHY05-3	Effects of Contention Window and Packet Size on the Energy Efficiency of Wireless Local Area Network	Xiaodong Wang (University of Cincinnati, USA), Jun Yin (University of Cincinnati, USA), Dharma Agrawal (UNIVERSITY OF CINCINNATI, USA)	1568941718
					PHY05-4	Towards the Performance Analysis of IEEE 802.11 in Multi-hop Ad-Hoc Networks	Saad Biaz (Auburn University, USA), Yawen Barowski (Auburn University, USA)	1568942194
PHY06: 802.11 MAC III	Tue	15-Mar	16:00	17:30	PHY06-1	Evaluation of Contention Free Bursting in IEEE 802.11e Wireless LANs	Atul Salhotra (Marvell Semiconductor, Inc., USA), Ravi Narasimhan (University of California, Santa Cruz, USA), Rahul Kopikare (Marvell Semiconductor, Inc., USA)	1568940773
					PHY06-2	An Analytic Model for Infrastructure WLAN Capacity with Bidirectional Frame Aggregation	Changwen Liu (Intel R&D, USA), Adrian Stephens (Intel, United Kingdom)	1568941836
					PHY06-3	A Link Adaptation strategy for QoS support in IEEE 802.11e-based WLANs	Matteo Bandinelli (University of Firenze, Italy), Francesco Chiti (Università di Firenze, Italy), Romano Fantacci (University of Florence, Italy), Daniele Tarchi (Universita' di Firenze, Italy), Gianluca Vannuccini (University of Firenze, Italy)	1568940840
					PHY06-4	Improving the Reliability of IEEE 802.11 Broadcast Scheme for Multicasting in Mobile Ad hoc Networks	Jiawei Xie (Nanyang Technological University, Singapore), Amitabha Das (Nanyang Technological University, Singapore), Sukumar Nandi (Indian Institute of Technology, Guwahati, India), Anil K. Gupta (Nanyang Technological University, Argentina)	1568941326
PHY07: Wireless Transmission Enhancements	Thu	17-Mar	9:00	10:30	PHY07-1	On the advantages of multi-hop extensions to IEEE 802.11 infrastructure mode	Sathya Narayanan (Panasonic, USA), Pei Liu (Polytechnic University, USA), Shivendra Panwar (Polytechnic University, USA)	1568941898
					PHY07-2	Energy Efficient Channel Coding based on Position Awareness and Radio Link Budget Estimation	Maria Fresia (University of Genoa, Italy)	1568941234
					PHY07-3	MEOW with CATS: Multimedia Extensions Over Wireless with CTS-Assisted Transmission Scheme	Martin Kappes (DoCoMo Euro-Labs, Germany), A.S. Krishnakumar (Avaya Labs, USA), P. Krishnan (Avaya Labs, USA)	1568941756
					PHY07-4	Scheduling Algorithm based on Sender Buffer Backlog for Real-Time Application in Mobile Packet Networks	Hideyuki Koto (KDDI R&D Laboratories, Inc., Japan), Masaki Fukushima (KDDI R&D Laboratories Inc., Japan), Shinichi Nomoto (KDDI R&D Laboratories Inc., Japan), Fumio Takahata (Waseda University, Japan)	1568941203

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PHY08: CDMA Link Design	Mon	14-Mar	16:00	17:30	PHY08-1	Throughput Analysis of Multirate VSG CDMA Wireless Packet Communication Systems in Rayleigh Fading Environment	Pongsatorn Sedtheetorn (University of Manchester, United Kingdom), Khairi Hamdi (Umist, United Kingdom)	1568938503
					PHY08-2	Serial Block Processing for Multi-Code WCDMA Frequency Domain Equalization	Daniele Lo Iacono (STMicroelectronics, Italy), Ettore Messina (STMicroelectronics, Italy), Costantino Volpe (STMicroelectronics, Italy), Arnaldo Spalvieri (Politecnico of Milan, Italy)	1568940764
					PHY08-3	A Frequency Domain Approach for Estimating Frequency Offset and Speed in 3G W CDMA Systems	Karthik Muralidhar (STMicroelectronics Asia Pacific Pte Ltd, Singapore), Kwok Li (Nanyang Technological University, Singapore, Singapore), Ser Wah Oh (STMicroelectronics, Singapore)	1568941876
					PHY08-4	A New Approach to Study the Effect of Carrier Frequency Offset on the BER Performance of Asynchronous MC-CDMA Systems	Xiaoyu Hu (National University of Singapore, Singapore), Yong Huat Chew (Institute for Infocomm Research, Singapore)	1568941878
PHY09: CDMA I	Tue	15-Mar	14:00	15:30	PHY09-1	Performance Evaluation of WCDMA High Speed Downlink Packet Access/Frequency Division Duplex Mode	Mahmoud Ismail (The University of Mississippi, USA), Mustafa Matalgah (University of Mississippi, USA)	1568942121
					PHY09-2	Multihop Mobile Communications System using MC-CDMA in Forward links	Takeo Ohseki (KDDI R&D Laboratories, Inc., Japan), Naoki Fuke (KDDI R&D Laboratories, Inc., Japan), Osamu Maeshima (KDDI R&D Laboratories Inc., Japan), Hisato Iwai (KDDI R&D Laboratories, Japan), Keizo Sugiyama (KDDI R&D labs., Japan), Mitsuo Nohara (KDDI R&D Laboratories, Inc., Japan)	1568941807
					PHY09-3	Reverse Link Capacity of the WCDMA System Using High Altitude Platform Stations	Tae Chul Hong (Electronics and Telecommunications Research Institute, Republic of Korea), Bon-Jun Ku (Electronics and Telecommunications Research Institute, Republic of Korea), Jong-Min Park (Electronics and Telecommunications Research Institute, Republic of Korea), Do-Seob Ahn (Electronics and Telecommunications Research Institute, Republic of Korea)	1568940971
					PHY09-4	Analysis of Forward-Link Outage Performance in CDMA Distributed Antenna Systems with Imperfect Channel Estimation	Chen Peng (BUPT, P.R. China), WU Wei-ling (BUPT, P.R. China)	1568938901
PHY10: CDMA II	Tue	15-Mar	16:00	17:30	PHY10-1	Multicode CDMA Transmission over Time-Varying Multipath Channels	Yanxin Na (University of Texas at Dallas, USA), Mohammad Saquib (Univ Texas Dallas, USA), Giridhar Mandyam (Nokia Research Center, USA)	1568942107
					PHY10-2	Complete Analytical Framework for Throughput Calculation in WCDMA Downlink TDD Mode	Mahmoud Ismail (The University of Mississippi, USA), Mustafa Matalgah (University of Mississippi, USA)	1568942123
					PHY10-3	Reverse-Link Performance Analysis in Multi-Cell Distributed Antenna Systems	Chen Peng (BUPT, P.R. China), WU Wei-ling (BUPT, P.R. China)	1568940801
					PHY10-4	BER Performance of Multicarrier Spread Spectrum Chip-Level Differential Detection in Multipath Fading Channels	Song Lijun (University of Electronic Science and Technology of China, Chengdu, Sichuan, P.R.China., P.R. China)	1568941939

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PHY11: CDMA III	Tue	15-Mar	9:00	10:30	PHY11-1	Adaptive Soft-Input Soft-Output Multiuser Detection for Asynchronous Coded DS-CDMA Systems	Wei Zhang (University of Ottawa, Canada), Claude D'Amours (School of Information Technology and Engineering(SITE), University of Ottawa, Canada), Abbas Yongacoglu (University of Ottawa, Canada)	1568940967
					PHY11-2	A Robust Linearly Constrained CMA for Adaptive Blind Multiuser Detection	Ayman Elnashar (MobiNil, Egypt), Said Elnoubi (Alexandria University, Egypt), Hamdi Elmikati (Mansoura University, Egypt)	1568941254
					PHY11-3	DS-CDMA SIR Estimation With Bias Removal	Carmela Cozzo (Ericsson Research, USA), Gregory Bottomley (Ericsson Inc., USA)	1568941268
					PHY11-4	Effects of Noise-Like UWB Emissions on cdma2000 Forward Link Performance	Marilynn Green (Nokia Research Center, USA), Peter Wang (Nokia Research Center, USA)	1568941090
PHY12: CDMA IV	Wed	16-Mar	9:00	10:30	PHY12-1	On the Spectral Efficiency of DS-CDMA with Higher Order Modulation in Presence of Fading	Oliver Praetor (Dresden Technical University, Germany), Gerhard Fettweis (Technische Universitaet Dresden, Germany)	1568941332
					PHY12-2	Delay and DOA Estimation for Chip-Asynchronous DS-CDMA Systems Using Reduced Rank Space-time Processing	Chiao-yao Chuang (University of Southern California, USA), Xiaoli Yu (University of Southern California, USA), C.C. Jay Kuo (University of Southern California, USA)	1568941778
					PHY12-3	Efficient Minimum Probability of Error Demodulation for DS-CDMA Systems	Mohit Garg (IIT Bombay, India), Umesh Nimbhorkar (IIT Bombay, India), Uday Desai (IIT Bombay, India), S. N. Merchant (IIT Bombay, India)	1568941847
PHY13: Multiuser DS-CDMA	Wed	16-Mar	14:00	15:30	PHY13-1	Iterative Group Blind Multiuser Detection and Decoding for Asynchronous CDMA Systems	Shahram Talakoub (University of Windsor, Canada), Behnam Shahrava (University of Windsor, Canada)	1568942042
					PHY13-2	Blind Adaptive Multiuser Detection for Periodically Time Varying Interference Suppression	James Whitehead (University of Natal, South Africa)	1568941810
					PHY13-3	Low-complexity Performance Optimization for MIMO CDMA Systems	Chun-Hung Liu (The University of Texas at Austin, USA)	1568940958
					PHY13-4	A novel segment-level MMSE-MUD design for rapidly time-varying channel conditions in TD-SCDMA down-link channel	Lei Wan (ETC, P.R. China), Tomas Sundin (EAB, Sweden)	1568941304
PHY14: CDMA Systems	Mon	14-Mar	16:00	17:30	PHY14-1	Signal Detection and Interference Cancellation for TD-SCDMA Downlink in Fast Time-Varying Environment	Yuhong Wang (Institute for Infocomm Research, Singapore), Ying-Chang Liang (Institute for Infocomm Research, Singapore), Wing Seng Leon (Institute for Infocomm Research, Singapore)	1568941951
					PHY14-2	Interference Whitening Receivers for Bandlimited DS-CDMA Systems in Nakagami Fading	Kathiravetpillai Sivanesan (University of Alberta, Canada), Norman Beaulieu (University of Alberta, Canada)	1568942254
					PHY14-3	Peak Power Reduction without Overhead for Up-Link in SCS-MC-CDM System	Noboru Izuka (Japan Telecom, Japan)	1568941120
					PHY14-4	Diversity Combining Options for Spread Spectrum OFDM Systems in Frequency Selective Channels	Robert Novak (University of Alberta / TRLaboratories, Canada), Witold Krzymien (University of Alberta / TRILabs, Canada)	1568941908

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PHY15: Iterative Multiuser Receivers	Wed	16-Mar	16:00	17:30	PHY15-1	Design of Turbo-MUD Receivers with Density Evolution in Overloaded CDMA Systems	Simone Morosi (University of Firenze, Italy, Italy), Enrico Del Re (University of Florence, Italy), Romano Fantacci (University of Florence, Italy), Angela Chiassai (University of Firenze, Italy, Italy)	1568940745
					PHY15-2	An Iterative Receiver for Layered Space-Time MIMO DS-CDMA Uplink Using Turbo Trellis-Coded Modulation	Jun Ho Jeong (Penn-State university, USA), Mohsen Kavehrad (The Pennsylvania State University -- Univ. Park, USA)	1568939987
					PHY15-3	Convergence Behavior of Iterative Turbo Multiuser Detection Algorithms	Mehdi Hedjazi Moghari (Queen's University, Canada), Behnam Shahrrava (University of Windsor, Canada)	1568942045
					PHY15-4	Group-Blind Turbo Multiuser Detection for CDMA Using a Gaussian Approximation	Mehdi Hedjazi Moghari (Queen's University, Canada), Behnam Shahrrava (University of Windsor, Canada)	1568941248
PHY16: 3G Networks I	Wed	16-Mar	14:00	15:30	PHY16-1	Adaptive Block-Equalizers for the UTRA-FDD Downlink	Mauro Pesce (Swiss Federal Institute of Technology (ETH), Switzerland), Dirk Dahlhaus (Swiss Federal Institute of Technology (ETH) Zurich, Switzerland), Heino Gerlach (Siemens AG, Mobile Phones, ICM MP P HW3 MCH1, Germany), Wen Xu (Siemens AG, Germany)	1568941192
					PHY16-2	Whitening Matched Filter for Attenuating Frequency Selectively Faded Interferers in GSM	Hartmut Wilhelm (Siemens AG, Germany)	1568941412
					PHY16-3	Optimized Convolutional Code Design for 3GPP TDD systems in Rayleigh fading channel	Gang Wu (Philips Research East Asia, P.R. China)	1568941419
					PHY16-4	cdma2000 Packet Data Throughput Improvements Provided by Handset Dual Antenna Diversity	Levent Aydin (Qualcomm Incorporated, USA), Samir Ginde (Virginia Tech, USA), Walid Hamdy (Qualcomm Incorporated, USA)	1568942191
PHY17: 3G Networks II	Wed	16-Mar	16:00	17:30	PHY17-1	An Efficient Radio Resource Management Technique for the Reverse Link in cdma2000 1xEV-DV	Hwanjoon Kwon (Samsung Electronics, Republic of Korea), Younsun Kim (Samsung Electronics, Republic of Korea), Jin-kyu Han (Samsung Electronics, Republic of Korea), Donghee Kim (Samsung Electronics, Republic of Korea)	1568941837
					PHY17-2	In Search of Lost Capacity Non-effective Load in UMTS Radio Interface (Uplink)	Krzysztof Kordybach (VTT Information Technology, Finland), Sami Nousiainen (VTT, Finland)	1568938925
					PHY17-3	On Link Budget of cdma2000 1x EV-DV Forward Link	Jian Gu (Nokia (China) Investment Co., P.R. China), Xiangguang Che (NOKIA, P.R. China)	1568940779
					PHY17-4	A Macroanalysis of Hsdpa Receiver Models	Ahmet Bastug (Philips Semiconductors, France), Dirk Slock (Eurecom Institute, France)	1568940341
PHY18: MIMO Systems I	Mon	14-Mar	16:00	17:30	PHY18-1	On the Asymptotic Behavior of the Outage Probability for MIMO Systems	Ali Ghayeb (Concordia University, Canada)	1568940662
					PHY18-2	Investigation of Diversity Techniques Considering Receiver Structure in MIMO Systems	Yutaka Murakami (Matsushita Electric Industrial Co., Ltd., Japan), Kiyotaka Kobayashi (Matsushita Electric Industrial Co., Ltd., Japan), Masayuki Orihashi (Matsushita Electric Industrial Co., Ltd., Japan), Takashi Matsuoka (Matsushita Electric Industrial Co., Ltd., Japan)	1568940718
					PHY18-3	Analytical Approach of V-BLAST Performance with Two Transmit Antennas	Xu Rongtao (Hong Kong Polytechnic University, Hong Kong), Francis Lau (Hong Kong Polytechnic University, Hong Kong)	1568941140
					PHY18-4	Tight Upper Bound on the Ergodic Capacity of the Ricean Fading MIMO Channels	Shi Jin (Southeast University, P.R. China)	1568941315

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PHY19: MIMO Systems II	Tue	15-Mar	9:00	10:30	PHY19-1	A Comparative Study of MIMO Detection Algorithms for Wideband Spatial Multiplexing Systems	Jingming Wang (University of California, Los Angeles, USA), Babak Daneshrad (University of California, Los Angeles, USA)	1568941015
					PHY19-2	Fading and Interference Mitigation in Multi-Antenna Wireless Transmission	Oghenekome Oteri (Stanford University, USA), Arogyaswami Paulraj (Stanford University, USA)	1568942280
					PHY19-3	Decoupling Method for Low Complexity Turbo Equalization of Frequency-Selective MIMO Wireless Systems	Yongfang Guo (Intel, USA), Bernard Levy (Univ. of California, Davis, USA)	1568941843
					PHY19-4	Space-Time-Frequency Coded Multiband UWB Communication Systems	Wipawee Siriwongpairat (University of Maryland, USA), Weifeng Su (Department of Electrical and Computer Engineering, University of Maryland, USA), Masoud Olfat (University of Maryland, USA), K.J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, USA)	1568942030
PHY20: MIMO Systems III	Tue	15-Mar	14:00	15:30	PHY20-1	Construction and Capacity Analysis of High-Rank Line-of-Sight MIMO Channels	Frode Bøhagen (Nera Research, Norway), Pål Orten (NERA, Norway), Geir E. Øien (NTNU, Dept. of Electronics and Telecommunications, Algeria)	1568940736
					PHY20-2	Multi-user detection in OFDM space time block code for high rate uplink application	Mohamad Jamalulil Syed (University of Limoges - ENSIL, France), Vahid Meghdadi (University of Limoges, France), Ferré Guillaume (University of Limoges, France), Jean Pierre Cancès (University of Limoges, France), Reza Mohammad Khani (CNRS/LSS, France), Jean-Michel Dumas (University of Limoges, France)	1568940604
					PHY20-3	Interference Cancellation for Space-Frequency OFDM MIMO Systems: Iterative Decoding	Linyang Song (University of York, United Kingdom), Alister Burr (University of York, United Kingdom)	1568940919
PHY21: MIMO Coding I	Tue	15-Mar	16:00	17:30	PHY21-1	A Closed-Form Result for the Average Pairwise Error Probability of $t=2, r=1$ Differential Cyclic Unitary Space-Time Modulation	Zheng Du (University of Alberta, Canada), Norman Beaulieu (University of Alberta, Canada), Jinkang Zhu (University of Science and Technology of China, P.R. China)	1568940975
					PHY21-2	Diagonal space time Hadamard codes with erasure decoding algorithm	Domenico Giustiniano (University of Palermo, Italy), Paul Lusina (TAIT, university of Ulm, Germany), Giovanni Garbo (University of Palermo, Italy)	1568941168
					PHY21-3	Generalized Block Space-Time Trellis Code: Set-Partitioning and Code Design	Mohammad Janani (The University of Texas at Dallas, USA), Aria Nosratinia (University of Texas, Dallas, USA)	1568942304
					PHY21-4	Improved Tomlinson-Harashima Precoding for the Downlink of Multiple Antenna Multi-User Systems	Jia Liu (University of Alberta / TRILabs, Canada), Witold Krzymien (University of Alberta / TRILabs, Canada)	1568941582
PHY22: MIMO Coding II	Wed	16-Mar	9:00	10:30	PHY22-1	Effective Design of Recursive Convolutional Space-Time Codes with an Arbitrary Number of Transmit Antennas	Ying Li (Xidian University, P.R. China)	1568940322
					PHY22-2	A New Two Level Differential Unitary Space-Time Modulation	Zheng Du (University of Alberta, Canada), Norman Beaulieu (University of Alberta, Canada)	1568941027
					PHY22-3	Quasi-Orthogonal STBC with Minimum Decoding Complexity: Further Results	Chau Yuen (Nanyang Technological University, Singapore), Yong Guan (Nanyang Technological University, Singapore), Tjeng Thieng Tjhung (Institute for Infocomm Research, Singapore)	1568941286
					PHY22-4	On the Design of Linear Precoders for Orthogonal Space-Time Block Codes with Limited Feedback	Shahab Sanayei (The University of Texas at Dallas, USA), David Love (Purdue University, USA)	1568942213

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PHY23: MIMO Coding III	Wed	16-Mar	14:00	15:30	PHY23-1	A New Differential Monomial Space-Time Code	Zheng Du (University of Alberta, Canada), Norman Beaulieu (University of Alberta, Canada)	1568941274
					PHY23-2	On the Performance of Alamouti Space-Time Code in Time-Varying Channels with Noisy Channel Estimates	Jitra Jootar (University of California, San Diego, USA), James Zeidler (Univ. of California, San Diego, USA), John Proakis (University of California, San Diego, USA)	1568942111
					PHY23-3	An Adaptive Power Allocation Scheme for Space-Time Block Coded MIMO Systems	Liang Xian (Oregon State University, USA), Huaping Liu (Oregon State University, USA)	1568941125
					PHY23-4	Error Probability of Orthogonal Space Time Block Codes over Correlated Rayleigh and Rician Channels	Hao Zhang (University of Victoria, Canada), Wei Li (University of Victoria, Canada), T. Aaron Gulliver (University of Victoria, Canada)	1568940796
PHY24: MIMO Transceiver Designs I	Wed	16-Mar	16:00	17:30	PHY24-1	Symbol by Symbol Soft-Input Soft-Output Multiuser Detection for Frequency Selective MIMO Channels	Sara Bavarian (Simon Fraser University, Canada), Jim Cavers (Simon Fraser University, Canada)	1568940712
					PHY24-2	An Iterative Interference Cancellation scheme for STBC multirate multiuser Systems	The-Hanh Pham (National University of Singapore, Singapore), Nallanathan Arumugam (National University of Singapore, Singapore), Balakrishnan Kannan (Institute for Infocom Research, Singapore)	1568941708
					PHY24-3	Software-Defined Radio Implementation of Multiple Antenna Systems using Low-Density Parity-Check Codes	Nicolae Chiurtu (EPFL, Switzerland)	1568942116
					PHY24-4	Single-Block Differential Transmit Scheme for Frequency Selective MIMO-OFDM systems	Thanongsak Himsoon (University of Maryland, USA), Weifeng Su (Department of Electrical and Computer Engineering, University of Maryland, USA), K.J. Ray Liu (University of Maryland, USA)	1568941960
PHY25: MIMO Transceiver Designs II	Thu	17-Mar	9:00	10:30	PHY25-1	The Sorted-QR Chase Detector for Multiple-Input Multiple-Output Channels	Deric Waters (Georgia Institute of Technology, USA), John Barry (Georgia Institute of Technology, USA)	1568941992
					PHY25-2	Space-Time Signaling in Correlated Channels	Ahmadreza Hedayat (The University of Texas at Dallas, USA), Harsh Shah (The University of Texas at Dallas, USA), Aria Nosratinia (University of Texas, Dallas, USA)	1568942302
					PHY25-3	Joint Optimization of Rate Allocation and BLAST Ordering to Minimize Outage Probability	Arumugam Kannan (Georgia Institute of Technology, USA), Badri Varadarajan (Georgia Tech, USA), John Barry (Georgia Institute of Technology, USA)	1568942063
					PHY25-4	Design and Implementation of a 5.25GHz Radio Transceiver for a MIMO Testbed	Stephan Lang (University of California, Los Angeles, USA), Babak Daneshrad (University of California, Los Angeles, USA)	1568941356
PHY26: Wireless Circuits I	Wed	16-Mar	14:00	15:30	PHY26-1	A High-Precision AFC Circuit Applied to 64QAM Point-to-Multipoint Burst Communications	Yosuke Akimoto (NTT Corporation, Japan), Yushi Shirato (NTT, Japan), Kazuji Watanabe (NTT, Japan)	1568941322
					PHY26-2	A Novel Five-Port Direct Conversion Receiver Architecture	Marko Mailand (Dresden University of Technology, Germany)	1568940981
					PHY26-3	Development of a PC card using planar antennas for wireless LAN on 2.4/5GHz bands	Hidehiro Matsuoka (TOSHIBA Corporation, Japan)	1568941391
					PHY26-4	A Novel Timing Recovery Circuit with High Tracking Ability for Burst-mode Multi-level QAM Transmission	Yushi Shirato (NTT, Japan), Hiroshi Yoshioka (NTT, Japan), Kazuji Watanabe (NTT, Japan)	1568940934

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PHY27: Wireless Circuits II	Wed	16-Mar	16:00	17:30	PHY27-1	The Research on the Design of Filter Banks in Filtered Multitone Modulation	Youjun Gao (Shandong University, P.R. China)	1568940780
					PHY27-2	Efficient VLSI Architectures for Recursive Vandermonde QR Decomposition in Broadband OFDM Pre-distortion	Yuanbin Guo (Nokia, USA)	1568940649
					PHY27-3	The use of Hybrid Logarithmic Arithmetic for Root Raised Cosine Matched Filters in WCDMA downlink receivers.	Charan Litchfield (University Of Kent At Canterbury, United Kingdom)	1568941205
					PHY27-4	Continuous Modulation From a Single-Bit DSP Output	Jagadish Venkataraman (University of Notre Dame, USA)	1568942080
PHY28: Ad-Hoc Networks I	Wed	16-Mar	9:00	10:30	PHY28-1	A Non-Cooperative Power Control Game for Multi-Carrier CDMA Systems	Farhad Meshkati (Princeton University, USA), Mung Chiang (Princeton University, USA), Stuart Schwartz (Princeton University, USA), H. Vincent Poor (Princeton University, USA), Narayan Mandayam (WINLAB, Rutgers University, USA)	1568941977
					PHY28-2	Exploiting Processing Gain in Wireless Ad Hoc Networks Using Synchronous Collision Resolution Medium Access Control Schemes	John Stine (Mitre Corporation, USA)	1568941528
					PHY28-3	Transmission Power Control for Ad Hoc Wireless Networks:Throughput, Energy and Fairness	Lujun Jia (Northeastern University, USA), Xin Liu (Northeastern University, USA), Guevara Noubir (Northeastern University, USA), Rajmohan Rajaraman (Northeastern University, USA)	1568941987
					PHY28-4	Optimal Channel Utilization Ratio in Ad Hoc Wireless Networks	Gianluigi Ferrari (University of Parma, Italy), Ozan Tonguz (Carnegie Mellon University, USA), Chintia Tellambura (University of Alberta, Canada)	1568942152
PHY29: Ad-Hoc Networks II	Wed	16-Mar	14:00	15:30	PHY29-1	On the Capacity of Ad Hoc Networks with Clustering	Eugene Perevalov (Lehigh University, USA), Rick Blum (Lehigh University, USA), Danny Safi (Lehigh University, USA)	1568941989
					PHY29-2	A Clock-sampling Mutual Network Synchronization Algorithm for Wireless Ad Hoc Networks	Carlos Rentel (Carleton University, Canada), Thomas Kunz (Carleton University, Canada)	1568941953
					PHY29-3	A MAC technique for CDMA based Ad-Hoc networks	Romano Fantacci (University of Florence, Italy), Daniele Tarchi (Universita' di Firenze, Italy)	1568940789
					PHY29-4	Performance Analysis of Variable Bit Rate Multiclass Services in a Multi-Time-Hopping Pulse Position Modulation UWB System	Tung Chong Wong (Institute for Infocomm Research, Singapore), Jon Mark (University of Waterloo, Canada), Kee Chaing Chua (National University of Singapore, Singapore)	1568940930
PHY30: Sensor Networks	Wed	16-Mar	16:00	17:30	PHY30-1	Using Frequency Division to Reduce MAI in DS-CDMA Wireless Sensor Networks	Bao Hua Liu (University of New South Wales, Australia), Chun Tung Chou (University of New South Wales, Australia), Justin Lipman (University of NSW, Australia), Sanjay Jha (University of NSW, Australia)	1568941292
					PHY30-2	Does proper coding make single hop wireless sensor network reality: the power consumption persepective	Lizhi Zhong (UC Berkeley, USA), Jan Rabaey (UC Berkeley, USA), Adam Wolisz (Technical University of Berlin, Germany)	1568942240
					PHY30-3	Low Power Synchronization for Wireless Sensor Network Modems	Josephine Ammer (University of California, Berkeley, USA), Jan Rabaey (UC Berkeley, USA)	1568940567
					PHY30-4	Energy and Latency Control in Low Duty Cycle MAC Protocols	Yuan Li (Information Science Institute, University of Southern California, USA), Wei Ye (University of Southern California, USA), John Heidemann (University of Southern California, USA)	1568942029

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PHY31: Wireless MAC Protocols	Thu	17-Mar	14:00	15:30	PHY31-1	Balancing the Hidden and Exposed Node Problems With Power Control In CSMA/CA-Based Wireless Networks	Yihong Zhou (University of Texas, Austin, USA), Scott Nettles (University of Texas at Austin, USA)	1568942084
					PHY31-2	Towards a Better Understanding of Medium Access Control for Multiuser Beamforming Systems	Slawomir Stanczak (Fraunhofer German-Sino Lab for Mobile Comm., Germany), Holger Boche (Heinrich-Hertz-Institut für Nachrichtentechnik Berlin GmbH, Germany), Marcin Wiczanowski (Technical University of Berlin, Germany)	1568941264
					PHY31-3	Admission Control for Maximal Throughput in Power Limited CDMA Systems	Zory Marantz (Polytechnic University, USA), Penina Orenstein (Polytechnic University, USA), David Goodman (Polytechnic University, USA)	1568942086
					PHY31-4	Frame Level Control for Collision Mitigation in Orthogonal Code Hopping Multiplexing	Sung Ho Moon (Korea Advanced Institute of Science and Technology, Republic of Korea), Jae Kyun Kwon (Electronics and Telecommunications Research Institute, Republic of Korea), Dan Keun Sung (Korea Advanced Institute of Science and Technology, Republic of Korea)	1568941173
PHY32: Wireless MAC Analysis	Thu	17-Mar	16:00	17:30	PHY32-1	On the Performance of Randomized Power Control Algorithms in Multiple Access Wireless Networks	Arash Behzad (UCLA, USA), Izhak Rubin (University of California at Los Angeles, USA)	1568941865
					PHY32-2	A New Fairness Index for Radio Resource Allocation in Wireless Networks	Mehrdad Dianati (University of Waterloo, Canada), Sherman Shen (University of Waterloo, Canada), Sagar Naik (University of Waterloo, Canada)	1568942066
					PHY32-3	Linear and Successive Predistortion in the Frequency Domain: Performance Evaluation in SDMA Systems	Christoph Degen (RWTH Aachen University, Germany), Lars Brühl (RWTH Aachen University, Germany)	1568940953
PHY33: Coexistence & Spectrum Utilization	Thu	17-Mar	14:00	15:30	PHY33-1	Cognitive Radio - An Adaptive Waveform with Spectral Sharing Capability	Vasu Chakravarthy (Air Force Research Laboratory, USA), Arnab Shaw (Wright State University, USA), Michael Temple (Air Force Institute of Technology, USA), James Stephens (AFRL, USA)	1568941241
					PHY33-2	Interference Avoidance in Spectrally Encoded Multiple Access Communications Using MPSK Modulation	Abel Nunez (Air Force Institute of Technology, USA), Michael Temple (Air Force Institute of Technology, USA), Robert Mills (Air Force Institute of Technology, USA), Richard Raines (Air Force Institute of Technology, USA)	1568941067
					PHY33-3	Spectrum Load Smoothing for Optimized Spectrum Utilization - Rationale and Algorithm	Lars Berlemann (RWTH Aachen University, Germany), Bernhard Walke (Aachen University of Technology, Germany)	1568941571
					PHY33-4	Spectral efficiency analysis in noncooperative interference environments	Fredrik Berggren (KTH, Royal Institute of Technology, Sweden)	1568940333
PHY34: UWB I	Mon	14-Mar	16:00	17:30	PHY34-1	Receiver Improvement for Ultra-Wideband Transmitted-Reference Systems	Meng-Hsuan Chung (University of Southern California, USA), Robert Scholtz (University of Southern California, USA)	1568940748
					PHY34-2	Acquisition of Direct-Sequence Ultra-wideband Signals	Iyappan Ramachandran (University of Washington, USA), Sumit Roy (University of Washington, USA)	1568940957
					PHY34-3	A Comprehensive Study of Low-Power Ultra Wideband Radio Transceiver Architectures	Payam Heydari (University of California, Irvine, USA)	1568940960
					PHY34-4	Design of UWB pulses by spline approximation	Mitsuhiro MATSUO (Ibaraki University, Japan), Masaru KAMADA (Ibaraki University, Japan), Hiromasa Habuchi (Ibaraki University, Japan)	1568941146

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PHY35: UWB II	Wed	16-Mar	9:00	10:30	PHY35-1	Signal Design for Non-coherent UWB with PPM Modulation in Rayleigh Fading	Sudharman Jayaweera (Wichita State Unievrsity, USA)	1568941277
					PHY35-2	The Effect of Receiver Front-end Non-linearity on DS-UWB Systems Operating in the 3 to 4 Ghz Band	Ivan Lu (University of New South Wales, Australia)	1568942185
					PHY35-3	Ultra-Wideband Multicarrier Communication Receiver Based on Analog to Digital Conversion in the Frequency Domain	Sebastian Hoyos (University of Delaware, USA), Brian Sadler (Army Research Laboratory, USA), Gonzalo Arce (University of Delaware, USA)	1568941978
					PHY35-4	Optimum and Sub-Optimum Detection of Physics-Based Ultra-Wideband Signals In Presence of Inter-Symbol Interference	Robert Qiu (Tennessee Tech University, USA)	1568941901
PHY36: UWB III	Thu	17-Mar	9:00	10:30	PHY36-1	On Medium Access Control for High Data Rate Ultra-Wideband Ad Hoc Networks	Kejie Lu (University of Florida, USA), Dapeng Oliver Wu (University of Florida, USA)	1568940619
					PHY36-2	Exact Modeling of Multiple Access Interference and BER Derivation for TH-PPM UWB	Somasundaram Niranjayan (National University of Singapore, Singapore), Nallanathan Arumugam (National University of Singapore, Singapore), Balakrishnan Kannan (Institute for Infocom Research, Singapore)	1568941932
					PHY36-3	Ternary Orthogonal Variable Spreading Factor Codes with Zero-Correlation Zone for DS-UWB	Di Wu (Rutgers University, USA), Predrag Spasojevic (Rutgers University, USA), Ivan Seskar (Rutgers University, USA)	1568942079
					PHY36-4	Energy-Aware MAC Layer Resource Allocation for Multiuser Multiband UWB Systems	Wipawee Siriwongpairat (University of Maryland, USA), Zhu Han (University of Maryland, College Park, USA), K.J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, USA)	1568942032
PHY37: Communications Signal Processing	Thu	17-Mar	16:00	17:30	PHY37-1	Wireless Local Positioning System via DS-CDMA and Beamforming: A Perturbation Analysis	Hui Tong (Michigan Tech. University, USA), Seyed Zekavat (Michigan Technological University, USA)	1568940715
					PHY37-2	Computing Location from Ambient FM Radio Signals	Adel Youssef (University of Maryland, USA), John Krumm (Microsoft Research, USA), Eric Horvitz (Microsoft Research, USA), Ed Miller (Microsoft, USA), Gerry Cermak (Microsoft, USA)	1568941099
					PHY37-3	On the statistics of residual frequency error for frequency estimators	Tao Luo (Texas Instruments, USA), Young-Chai Ko (Korea University, Republic of Korea)	1568942061
					PHY37-4	An Investigation of Phase Pulse Shape Diversity to Generate Parallel Branches, Increase Data Rate, and Reduce the Complexity of CPM Modulation	James Norris (Harris Communications Corp., USA)	1568941216
PHY38: Diversity I	Thu	17-Mar	14:00	15:30	PHY38-1	A Practical RAKE Combining Scheme for Synchronous CDMA Systems	Wei Li (University of Victoria, Canada), Hong-Chuan Yang (University of Victoria, Canada), T. Aaron Gulliver (University of Victoria, Canada)	1568941257
					PHY38-2	Performance Analysis of Combining Techniques with Correlated Diversity	Eduard Jorswieck (Fraunhofer Institut für Nachrichtentechnik HHI, Germany), Tobias Oechtering (Technical University of Berlin, Germany), Holger Boche (Technical University of Berlin, Germany)	1568941043
					PHY38-3	Performance of Rake-MMSE-Equalizer for UWB Communications	Mohsen Eslami (University of Alberta, Canada), Xiaodai Dong (University of Alberta, Canada)	1568941727

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					PHY38-4	Optimal and Suboptimal Finger Selection Algorithms for MMSE Rake Receivers in Impulse Radio Ultra-Wideband Systems	Sinan Gezici (Princeton University, USA), Mung Chiang (Princeton University, USA), H. Vincent Poor (Princeton University, USA), Hisashi Kobayashi (Princeton University, USA)	1568941916

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PHY39: Diversity II	Thu	17-Mar	16:00	17:30	PHY39-1	Moment Based Analysis of Equal Gain Combiner in Equally Correlated Nakagami- m Fading Channels	Yunxia Chen (University of Alberta, Canada),	1568942160
					PHY39-2	Postdetection Switch-and-Stay Diversity in Rician Fading	Sasan Haghani (University of Alberta, Canada), Norman Beaulieu (University of Alberta, Canada)	1568941759
					PHY39-3	Error Probability Analysis of TAS/MRC-Based Scheme for Wireless Networks	Xi Zhang (Texas A&M University, USA), Jia Tang (Texas A&M University, Department of Electrical Engineering, USA)	1568942022
					PHY39-4	Optimum Selection Combining for M-QAM on Fading Channels	M. Surendra Raju (Insilica Semiconductors Pvt. Ltd, India), Ramesh Annavajjala (University of California, San Diego, USA), A. Chockalingam (Indian Institute of Science, India)	1568941040
PHY40: Communication Systems Performance Analysis I	Mon	14-Mar	16:00	17:30	PHY40-1	Error Performance of Coherent High Dimensional Signaling in Nakagami Fading Channels with Diversity Reception	Lei Xiao (University of Notre Dame, USA), Xiaodai Dong (University of Alberta, Canada)	1568940627
					PHY40-2	Performance of MC CDMA RAKE Systems in Generalized Nakagami- m Multipath Fading Channel	Abdel-Awal Hashem (University of Mansoura, Egypt), Said Elnoubi (Alexandria University, Egypt), Hamdi Elmikati (Mansoura University, Egypt)	1568941155
					PHY40-3	Theoretical Analysis of BER in DPSK/OFDM Systems with Postdetection Diversity Reception	Yuki Mitsu (Shinshu University, Japan), Fumihito Sasamori (Shinshu University, Japan), Shiro Handa (Shinshu University, Japan), Shinjiro Oshita (Shinshu University, Japan)	1568941377
					PHY40-4	Optimization of Delay Diversity for Linear Equalization	Simon Yiu (University of British Columbia, Canada), Robert Schober (University of British Columbia, Canada), Wolfgang Gerstacker (University of Erlangen-Nuernberg, Germany)	1568941531
PHY41: Communication Systems Performance Analysis II	Tue	15-Mar	9:00	10:30	PHY41-1	Sample Rejection for Efficient Simulation of Intersymbol Interference Channels with MLSD	Pavel Loskot (University of Alberta, Canada), Norman Beaulieu (University of Alberta, Canada)	1568942325
					PHY41-2	A Threshold-based Linear Parallel Interference Canceller on Fading Channels	Vibhor Tikiya (Emuzed (India) Pvt. Limited, India), A. Chockalingam (Indian Institute of Science, India)	1568940978
					PHY41-3	Robust Structured Interference Rejection Combining	Erik Larsson (George Washington University, USA)	1568940730
					PHY41-4	Adaptive Modulation and Coding with Multicodes over Nakagami Fading Channels	Raymond Kwan (University of British Columbia, Canada), Cyril Leung (University of British Columbia, Canada)	1568941367
PHY42: Wireless Channel Models	Thu	17-Mar	9:00	10:30	PHY42-1	Modelling and Performance Prediction for Multiple Antenna Systems using Enhanced Ray Tracing	Kah Heng Ng (University of Bristol, United Kingdom), Eustace Tameh (University of Bristol, United Kingdom), Andrew Nix (University of Bristol, United Kingdom)	1568940792
					PHY42-2	A 3D Correlation Model for MIMO Non-Isotropic Scattering with Arbitrary Antenna Arrays	Hamidreza Saligheh Rad (Queens Univ, Canada), Saeed Gazor (Queens Univ, Canada)	1568941842
					PHY42-3	Statistical Characterization of the UWB Propagation Channel in Various Types of High-Rise Apartments	Chia-Chin Chong (Samsung Advanced Institute of Technology, Republic of Korea),	1568940970
					PHY42-4	Characterization of Ultra-Wideband Channels for Outdoor Office Environment	Chee Wee Kim (National University of Singapore, Singapore)	1568941935

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PHY43: Communication Systems Performance Analysis III	Wed	16-Mar	9:00	10:30	PHY43-1	Accurate BER Analysis of Bandlimited DS-CDMA System with EGC and SC Diversity over Nakagami Fading Channels	Kathiravetpillai Sivanesan (University of Alberta, Canada), Norman Beaulieu (University of Alberta, Canada)	1568942255
					PHY43-2	Optimal Realizable MMSE Linear and Decision Feedback Equalizers: Time Domain Results	Jianqiang He (Louisiana State University, USA), Guoxiang Gu (Louisiana State University, USA), Zhongshan Wu (Louisiana State University, USA)	1568942020
					PHY43-3	Exact BERs for M^2 -QAM with MRC and Channel Estimation Errors in Rician Channels	Yao Ma (Iowa State University, USA), Robert Schober (University of British Columbia, Canada), Dongbo Zhang (Iowa State University, USA)	1568942021
					PHY43-4	On the Performance of Hybrid Macro/Microdiversity in the Reverse-Link Microcellular Networks	AbdulKareem Adinoyi (Carleton University, Canada), Halim Yanikomeroglu (Carleton University, Canada)	1568942027
PHY44: Multiuser Communications I	Thu	17-Mar	9:00	10:30	PHY44-1	Exploiting Multiuser Diversity with Only 1-bit Feedback	Shahab Sanayei (The University of Texas at Dallas, USA), Aria Nosratinia (University of Texas, Dallas, USA)	1568942303
					PHY44-2	SER Performance Analysis and Optimum Power Allocation for Decode-and-Forward Cooperation Protocol in Wireless Networks	Weifeng Su (University of Maryland, USA), Ahmed Sadek (University of Maryland, USA), K.J. Ray Liu (University of Maryland, USA)	1568941457
					PHY44-3	On the Distributed Space-Time Signal Design for a Large Number of Relay Terminals	Murat Uysal (University of Waterloo, Canada), Onur Canpolat (University of Waterloo, Canada)	1568941672
					PHY44-4	Adaptive Resource Allocation Scheme for 2-hop Non-regenerative MIMO Relaying System	Zhang Qi (University of Beijing Posts and Telecommunications, P.R. China)	1568942031
PHY45: Multiuser Communications II	Thu	17-Mar	14:00	15:30	PHY45-1	Cooperative Coding using Serial Concatenated Convolutional Codes	Yang Cao (The George Washington University, USA)	1568942273
					PHY45-2	Combined Opportunistic Beamforming and Receive Antenna Selection	Syed Jafar (University of California Irvine, USA), Lei Zan (University of California Irvine, USA)	1568942187
					PHY45-3	A Simple Cooperative Diversity Scheme based on Orthogonal Signaling	Veluppillai Mahinthan (University of Waterloo, Canada), Jon Mark (University of Waterloo, Canada)	1568941030
PHY46: Multiuser Communications III	Thu	17-Mar	16:00	17:30	PHY46-1	Multiuser Zero Forcing Relaying with Noisy Channel State Information	Armin Wittneben (ETH, Switzerland), Ingmar Hammerstroem (Swiss Federal Institute of Technology (ETH) Zurich, Switzerland)	1568942062
					PHY46-2	Performance Analysis of Reliability Filling on Quasi-Static Fading Channels	Arun Avudainayagam (University of Florida, USA), John Shea (University of Florida, USA)	1568941824
					PHY46-3	Energy Efficient Cooperation Transmission over Multiuser OFDM Networks: Who Helps Whom and How to Cooperate	Zhu Han (University of Maryland, College Park, USA), Thanongsak Himsoon (University of Maryland, USA), Wipawee Siritwongpairat (University of Maryland, USA), K.J. Ray Liu (Department of Electrical and Computer Engineering, University of Maryland, USA)	1568942136
PHY47: Coding Principles I	Tue	15-Mar	14:00	15:30	PHY47-1	Quasi-Cyclic Codes from Extended Difference Families	Tao Xia (University of Arizona, USA), Bo Xia (Intel Corporation, USA)	1568942211
					PHY47-2	Unequal Protection with Turbo Decoding for High-Order Modulated Signaling	Charles Wang (The Aerospace Corporation, USA)	1568940842
					PHY47-3	An Algorithm for the Estimation of the Minimum Distance of LDPC Codes	Marina Mondin (Politecnico di Torino, Italy), Fred Daneshgaran (California State University Los Angeles, USA), Massimiliano Laddomada (Politecnico di Torino, Italy)	1568941430

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PHY48: Coding Principles II	Tue	15-Mar	16:00	17:30	PHY48-1	Constrained Decoding for Turbo-CRC Code with High Spectral Efficient Modulation	Huijun Chen (University of Mississippi, USA), Lei Cao (University of Mississippi, USA), Chang Wen Chen (Florida Institute of Technology, USA)	1568941413
					PHY48-2	Performance of Hamming Codes in Systems Employing Different Code Symbol Energies	Wenhui Xiong (Ohio University, USA), David Matolak (Ohio University, USA)	1568941118
					PHY48-3	Unquantized and Uncoded Channel State Information Feedback on Wireless Channels	Dragan Samardzija (Bell Laboratories, Lucent Technologies, USA), Narayan Mandayam (WINLAB, Rutgers University, USA)	1568942219
					PHY48-4	Constellations Design for Multiple Transmissions : Maximizing the Minimum Squared Euclidean Distance	Leszek Szczecinski (INRS Energy, Materials and Telecommunications, Canada), Marcos Bacic (Universidad Tecnica Federico Santa Maria, Chile)	1568942074
PHY49: Communication Theory I	Wed	16-Mar	14:00	15:30	PHY49-1	On the use of Orthogonal Signals to Generate Parallel Branches and Improve the Spectral Efficiency of CPM and TCM Modulation	James Norris (Harris Communications Corp., USA)	1568941880
					PHY49-2	Iterative Decoding for Joint Source-Channel Coding using Combined TCQ/CPM	Zihuai Lin (Chalmers University of Technology, Sweden), Tor Aulin (Chalmers University, Sweden)	1568941350
					PHY49-3	Capacity and Coding of Flat Fading Channels without Channel	Teng Li (University of Notre Dame, USA), Oliver Collins (University of Notre Dame, USA)	1568942132
					PHY49-4	Time-Selective Signaling for Turbo-Equalization	Mehdi Hedjazi Moghari (Queen's University, Canada), Behnam Shahrrava (University of Windsor, Canada)	1568942041
PHY50: Communication Theory II	Wed	16-Mar	16:00	17:30	PHY50-1	Turbo Equalization With Iterative Online SNR Estimation	Shahram Talakoub (University of Windsor, Canada), Behnam Shahrrava (University of Windsor, Canada)	1568941089
					PHY50-2	Novel Performance Upper Bounds for Space-Time Trellis Codes over Quasi-Static Fading Channels	Jingyu Hu (University of Texas at Austin, USA), Scott Miller (Texas A&M University, USA)	1568942011
					PHY50-3	On an Optimum Algorithm for Waveform Synthesis and its applications to Digital Transmitters	RaviKiran Gopalan (University of Notre Dame, USA), Oliver Collins (University of Notre Dame, USA)	1568942040
					PHY50-4	Relaxed bandwidth sharing with Space Division Multiplexing	Vdot Guruprasad (Inspired Research LLC, USA)	1568942178
PHY51: 4G Wireless Networks Concepts	Thu	17-Mar	9:00	10:30	PHY51-1	Downlink Multicell MIMO-OFDM: An Architecture for Next Generation Wireless Networks	Lei Shao (University of Washington, USA), Sumit Roy (University of Washington, USA)	1568941004
					PHY51-2	Link-Adaptation-Enhanced Dynamic Channel Allocation for MIMO-OFDM Wireless Networks	Xi Zhang (Texas A&M University, USA), Jia Tang (Texas A&M University, Department of Electrical Engineering, USA)	1568940990
					PHY51-3	A Performance Analysis of Coded Frequency-Hopped OFDMA	Kostas Stamatiou (University of California, San Diego, USA), John G. Proakis (USA)	1568940813
					PHY51-4	Performance Studies of a VSF-OFCDM System using a Symbol Relocated Scheme during Retransmission	Xiaoming Peng (Institute for InfoComm Research, Singapore)	1568941770

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PHY52: Wireless Network Optimization	Thu	17-Mar	14:00	15:30	PHY52-1	Optimal Allocation of Bandwidth for Minimum Battery Consumption	Qinghua Zhao (University of California San Diego, USA), Pamela Cosman (UCSD, USA), Laurence Milstein (University of California, USA)	1568941308
					PHY52-2	Power cost of mobility in cellular systems with closed-loop power control	In Lee (University of Hanyang, Republic of Korea)	1568942249
					PHY52-3	Fast Near-Optimal Energy Allocation for Multimedia Loading on Multicarrier Systems	Michael A. Enright (University of Southern California, USA), C.C. Jay Kuo (University of Southern California, USA)	1568941530
					PHY52-4	Dimensioning Wireless Mobile Networks to Support Heterogeneous Traffic	Leila Ribeiro (CelPlan Technologies, Inc., USA), Luiz A. DaSilva (Virginia Polytechnic Institute and State University, USA)	1568941784
PHY53: Wireless Security (Invited)	Tue	15-Mar	14:00	17:30	PHY53-0	Opening Remarks:	Clifford Wang (Army Research Office, USA)	
					PHY53-1	A Covert Channel in MAC Protocols Based on Splitting Algorithms	S. Li (University of Maryland, USA), A. Ephremides (University of Maryland)	1568945532
					PHY53-2	Client Assisted Location Data Acquisition Scheme for Secure Enterprise Wireless Networks	Santosh Pandey (Auburn University, USA), B. Kim (Telcordia Technologies, USA), F. Anjum (Telcordia Technologies, USA), P. Agarwal (Auburn University, USA)	1568945302
					PHY53-3	Authenticated Key Exchange for Wireless Security	H. Imai (University of Tokyo, Japan), S. Shin (University of Tokyo, Japan), K. Kobara (University of Tokyo, Japan)	1568945303
					PHY53-4	Enhancing Wireless Location Privacy Using Silent Periods	L. Huang (University of Tokyo, Japan), K. Matsuura (University of Tokyo, Japan), H. Yamane (University of Tokyo, Japan), K. Sezaki (University of Tokyo, Japan)	1568945304
					PHY53-5	Preventing Wormhole Attacks on Wireless Ad Hoc Networks: A Graph Theoretic Approach	L. Lazos (University of Washington, USA), R. Poovendran (University of Washington, USA), C. Meadows (NRL, USA), P. Syverson (NRL, USA), L. W. Chang (NRL, USA)	1568945306
					PHY53-6	A Combinatorial Approach to Key Predistribution for Distributed Sensor Networks	J. Lee (University of Waterloo, Canada), D. R. Stinson (University of Waterloo, Canada)	1568945307