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# Welcome to IWS 2005





#### General Chair's Welcome Message

On behalf of the Organizing Committee and Steering Board, it is my great pleasure to welcome you to visit this web site for the First International Wireless Summit (IWS 2005).

Our Organizing Committee has been working very hard to make IWS 2005 a very fruitful event for everybody, i.e. people from academia, manufacturers, service providers, science parks and so on.

IWS will address every dimension of the present and future

converging wired and wireless communication by acting as a platform for the unification of three major telecom activities:

- Symposium on Wireless Personal Multimedia Communication (WPMC)
- Strategic Workshop (SW)
- Business Meetings & Exhibition, Wireless Science Park (WSP)

WPMC will present the R&D results by holding keynote speeches, technical and panel sessions and tutorials on hot topics, SW will focus on the future vision by conducting three workshops; Convergence Networks, Broadband Networks and Standardization and Regulatory Issues, and WSP will be dedicated to innovation by organizing Wireless Exhibition and several other attracting activities.

Besides these three main events namely, WPMC, SW and WSP, we have planned a very special event "Grand Opening Ceremony" by organizing an executive round-table discussion between some of the most influential people from the key players in the global industry of wireless communications. There will be an extensive guest and spouse programme as well.

I am personally interested in your recommendation and advice and encourage you to call or write me when convenient to make IWS 2005 a very successful event.

Looking forward to welcoming you in Aalborg on September 17-22, 2005

Best regards

Ramjee Prasad Professor, Director Center for TeleInFrastruktur (CTIF) Aalborg University



Time: 08:00 – 08:55 Room: 31 Europahallen	
Keynote Speech	Speaker: Dr. Ewan Shepherd, Agilent, USA Title: Spatial Division Multiplex Multi-channel OFDM Measurements Chair: Dr. Neeli R. Prasad, Center for TeleInFrastruktur (CTIF), Aalborg University, Denmark

Time: 09:00 – 10:30 Room: 22 Hal Øst WPMC'05	
(WM 1) Satellite and Navigation	Organizer: TPC Chair: Dr. Shingo Ohmori, NICT, Japan
Invited Track Speaker	Speaker: Prof. Enrico Del Re , University of Florence and CNIT, Italy Title: Role and Research Issues of Satellite Communications
<u>1297</u> Effects of Atmosphere Turbulence On Ground-based GPS Open Loop Tracking	Per Høeg, Aalborg University, Denmark, Laust Olsen, Aalborg University, Denmark, Anders Carlström, Saab Ericsson Space, Sweden
<u>1046</u> Iterative Carrier Phase Recovery for Turbo-Coded Systems with GMSK Modulation	Zhuo Wu, Alister G. Burr and George White Department of Electronics, University of York, York, UK
<u>1096</u> Joint Turbo-Decoding and Carrier Phase Estimation for Differentially Encoded OQPSK in Deep Space Communications	<i>Tarannum Reyaz, Alister G. Burr and George White</i> Communications Research Group, Department of Electronics, University of York, UK
<u>1156</u> An Experiment of Mobile Localization System Using a Low Altitude Stationary Flight Test Vehicle and Array Antennas	<i>Hiroyuki Tsuji</i> , National Institute of Information and Communications Technology (NICT), Japan, <i>Naoyuki Hirosaki</i> , National Institute of Information and Communications Technology (NICT), Japan and Graduate School of Science Engineering, Keio University, Japan, <i>Hiromi Matsuno</i> , National Institute of Information and Communications Technology (NICT), Japan and Yokohama National University, Japan <i>and Ryu Miura</i> , National Institute of Information and Communications Technology (NICT), Japan
<u>1427</u> Extending Wireless Grids to Remote Locations	Haresh S. Bhatt, V.H. Patel, K. Bandyopadhyay and A.R. Dasgupta Space Applications Centre, Indian Space Research Organization (ISRO), Ahmedabad, Gujarat, India

Time: 10:50 – 12:30 Room: 22 Hal Øst WPMC'05	
(WM 7) Wireless Access IV	Organizer: TPC Chair: Prof. Luc Deneire, UNICE, France

<u>1036</u> A Study on Rate Switching Decision for IEEE802.11e Block ACK	Toshihisa Nabetani and Kiyoshi Toshimitsu Corporate R&D Center, TOSHIBA Corporation, Japan
<u>1064</u> Improvement of Downlink Throughput of CSMA/CA WLANs	K. Nagata, S. Otsuki, M. Yoshioka, T. Kumagai and L. Luis, S. Aikawa
	NTT Access Network Service Systems Laboratories, NTT
	Corporation, Japan
<u>1256</u> RTS/CTS Systems for Ad-Hoc Wireless LAN with Adaptive Array Antenna	Satoru Takano, Takeo Fujii, Yukihiro Kamiya and Yasuo Suzuki Graduate School of Engineering, Tokyo University of Agriculture and Technology, Japan
<u>1260</u> Multi-Radio Resource Allocation Strategies for Heterogeneous Wireless Networks	<i>Leonardo Badia</i> , Consorzio Ferrara Ricerche (CFR), Italy, <i>Chiara Taddia</i> , Department of Engineering, University of Ferrara, Italy, <i>Gianluca Mazzini</i> , Consorzio Ferrara Ricerche (CFR), Italy <i>and Michele Zorzi</i> , Department of Information Engineering, University of Padova, Italy and Consorzio Ferrara Ricerche (CFR), Italy

## Time: 13:30 – 15:50 Room: 22 Hal Øst WPMC'05

(WA 13) Antenna and	Organizer: TPC
Propagation V	Chair: Prof. Matti Latva-Aho, University of Oulu, Finland
<u>1304</u> Reducing the Impact of Phase	A. Taparugssanagorn and J. Ylitalo
Noise on the MIMO Capacity	Centre for Wireless Communications, University of Oulu,
Estimation	Finland
<u>1344</u> Radio Coverage Estimation at 5 GHz and 2.2 GHz for WLAN Systems in Indoor and Outdoor Environments	<i>Delphin Barankanira and Nadine Malhouroux-Gaffet</i> France Telecom, R&D/RESA/NET, France
<u>1380</u> Automatic Clustering of MIMO Channel Parameters Using the Multi-Path Component Distance Measure	Nicolai Czink, Institut für Nachrichtentechnik und Hochfrequenztechnik, Technische Universität Wien, Austria, Pierluigi Cera, Institut für Nachrichtentechnik und Hochfrequenztechnik, Technische Universität Wien, Austria, Jari Salo, Institut für Nachrichtentechnik und Hochfrequenztechnik, Technische Universität Wien, Austria and Radio Laboratory/SMARAD, Helsinki University of Technology, Finland, Ernst Bonek, Institut für Nachrichtentechnik und Hochfrequenztechnik, Technische Universität Wien, Austria, Jukka-Pekka Nuutinen, Elektrobit Testing Ltd., Oulu, Finland and Juha Ylitalo, Centre for Wireless Communications, University of Oulu, Finland

1431 Antennas and Propagation for	Yang Hao, Queen Mary, University of London, London, UK,
Body Centric Wireless	Akram Alomainy, Queen Mary, University of London, London,
Communications	UK, Yan Zhao, Queen Mary, University of London, London,
	UK, Clive G. Parini, Queen Mary, University of London,
	London, UK, Peter S. Hall, The University of Birmingham,
	Birmingham, UK, Yuriy I. Nechayev, The University of
	Birmingham, Birmingham, UK and Costas C. Constantinou,
	The University of Birmingham, Birmingham, UK

Time: 15:50 – 17:50 Room: 22 Hal Øst WPMC'05	
(WA 19) Transmission	Organizer: TPC
Technology VI	Chair: Dr. Uma Jha, Qualcomm, USA
<u>1293</u> Frequency-Domain MMSE Turbo Equalization Convergence in Spatially Correlated MIMO Channels	Kimmo Kansanen and Tad Matsumoto University of Oulu, Finland
<u>1341</u> Geometrical Characterization	Holger Boche and Volker Pohl
of the Optimal Causal Linear	Technical University Berlin, Heinrich Hertz Chair for Mobile
MIMO-Channel Inverse	Communications, Germany
<u>1360</u> Outdoor-Indoor MIMO	Matthews C. Mtumbuka and David J. Edwards
Channel Measurements	Department of Engineering Science, University of Oxford, UK
<u>1377</u> A Fully Real-Time Wireless	Andre Bourdoux, Veerle Derudder, Maryse Wouters and Sven
MIMO-OFDM Demonstrator with	Janssens
TX and RX Processing Capability	IMEC vzw, DESICS, Belgium
<u>1421</u> Interference Mitigation in	Kihong Kim and Gordon L. Stüber
MIMO Systems by Subset Antenna	School of Electrical and Computer Engineering
Transmission	Georgia Institute of Technology Atlanta, USA

Time: 09:00 – 10:30 Room: 15 Gæstesalen WPMC'05	
(WM 2) Transmission Technology III	Organizer: TPC Chair: Prof. George White, University of York, U.K.
<u>1078</u> An Efficient Channel Information Feedback Method for Adaptive Multiuser OFDM Systems	Jun-Chae Na and Min-Jeong Kim KTF, Korea

<u>1118</u> Adaptive Spatial Mode Employing Space-Time and Space- Frequency OFDM System Over IEEE 802.11 Fading Channels	N.K. Noordin, Faculty of Engineering, Universiti Putra Malaysia, Malaysia, B.M. Ali, Faculty of Engineering, Universiti Putra Malaysia, Malaysia, S.S. Jamuar, Faculty of Engineering, Universiti Putra Malaysia, Malaysia and M.B. Ismail, Faculty of Engineering, Universiti Kebangsaan Malaysia, Malaysia
<u>1149</u> Reduction Technique of Modulation Level Information in Forward Link OFDM/TDD Systems with Subcarrier Adaptive Control <u>1229</u> Adaptive Modulation of OFDM using Pre-Transform of Data	Toshiaki Yamamoto, Hiroyasu Ishikawa and Toshinori Suzuki KDDI R&D Laboratories, Japan
Symbols	

Time: 10:50 – 12:30 Room: 15 Gæstesalen WPMC'05	
(WM 8) Transmission Technology IV	Organizer: TPC Chair: Prof. V. Sinha, IIT Kanpur, India
<u>1306</u> A Technique for Reducing the Impact of Beyond Cyclic Prefix Multi-Path in OFDM	Mike J. Hart and Mark A. Beach Fujitsu Laboratories of Europe, Ltd., UK
<u>1275</u> Diversity Realization of Orthogonal Space-Frequency Block Coded OFDM System Over Time and Frequency Selective Fading Channels	Yu Zhang, Alister G. Burr and George White Communications Research Group, Department of Electronics, University of York, UK
<u>1276</u> Performance Analysis of OFDM-OQAM Systems	Antonio Assalini, Matteo Trivellato and Silvano Pupolin University of Padova, Department of Information Engineering (DEI), Italy
<u>1326</u> EM Based Joint Data Decoding and Channel Estimation in Space- Frequency Turbo Coded OFDM	Jari Ylioinas and Markku Juntti Centre for Wireless Communications University of Oulu, Finland

Time: 13:50 – 15:50 Room: 15 Gæstesalen WPMC'05	
(WA 14) Multimedia, Networks	Organizer: TPC
and Systems III	Chair: Prof. Erik Fledderus, TNO, The Netherlands
<u>1136</u> Random Slot Allocation (RSA)	<i>Taketo Ijiri, Riaz Esmailzadeh and Masao Nakagawa</i>
for a TDD-Based Public and Ad-Hoc	Department of Information and Computer Science, Keio
Hybrid Network	University, Yokohama, Japan

<u>1163</u> Constant Bit Rate H.264/AVC	P.Y. Yip, School of Computer Science, University of
Compliant Stereoscopic Video	Hertfordshire, UK, W.A.C. Fernando, School of Engineering
Transmission Over W-CDMA	and Design, Brunel University, Middlesex, UK, J.A. Malcolm,
Channels	School of Computer Science, University of Hertfordshire,
	UK, K.K. Loo, School of Engineering and Design, Brunel
	University, Middlesex, UK and H. Kodikara Arachchi,
	School of Engineering and Design, Brunel University,
	Middlesex, UK
<u>1169 Novel Scanning Order for</u>	H. Kodikara Arachchi, Electronic and Computer Engineering,
Improving the Bit Rate Performance of	School of Engineering and Design, Brunel University, UK,
ZTE Video Coding	W.A.C. Fernando, Electronic and Computer Engineering,
	School of Engineering and Design, Brunel University, UK
	and E.A. Edirisinghe, Department of Computer Science,
	Loughborough University, UK
<u>1219</u> Joint Interpolated Motion-	K. Ponudurai, W.A.C. Fernando and K.K. Loo
Disparity Estimation and Vector	School of Engineering and Design, Brunel University, UK
Refinement Technique with	
Evolutionary Strategy for Stereoscopic	
Video Compression	
1259 Analysis of IP-Based	Ramon Aguero, Johnny Choque, Luis Munoz and Jose Angel
Communications Over a Real Multi-	Irastorza
Hop Test-Bed Based on the DSR	Department of Communications Engineering ETSIIT –
Protocol	University of Cantabria Santander, Spain
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<u>1164</u> Prioritised Modulation Scheme	P.Y. Yip, School of Computer Science, University of
for H.264/AVC Compliant	Hertfordshire, UK, W.A.C. Fernando, School of Engineering
Stereoscopic Video Transmission Over	and Design, Brunel University, UK, K.K. Loo, School of
Rayleigh Fading Channel	Engineering and Design, Brunel University, UK, and H.
	Kodikara Arachchi, School of Engineering and Design,
	Brunel University, UK
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#### Time: 15:50 – 17:50 Room: 15 Gæstesalen WPMC'05

(WA 20) Multimedia, Networks and Systems IV	Organizer: TPC Chair: Prof. Gordon Stuber, Georgia Institute of Technology Atlanta, USA
<u>1070</u> Some Issues Concerning MAC Design in Ad Hoc Networks with MIMO Communications	Paolo Casari, Marco Levorato and Michele Zorzi DEI — University of Padova, Italy
<u>1147</u> Efficient Motion EstimationAlgorithm for H.264 BasedConversational Video Codecs <u>1220</u> Performance Evaluation ofH.264 Video Transmission withMIMO Wireless Systems OverFrequency Selective Channel	S. Adedoyin, W.A.C. Fernando, H. Kodikara Arachchi, T. Kalganova and K.K. Loo School of Engineering and Design, Brunel University, UK <i>R. Panchal</i> , School of Engineering and Design, Brunel University, UK, K.K. Loo, School of Engineering and Design, Brunel University, UK, <i>M.F. Siyau</i> , Dept. of Electrical, Computer & Communications Engineering, London South
	Bank University, UK <i>and W.A.C. Fernando</i> , School of Engineering and Design, Brunel University, UK

<u>1338</u> Performance Evaluation of Point-to-Point Scheduling Strategies for the ADHOC MAC Protocol	J.R. Gallego, Dpto. Ingeniería Electrónica y Comunicaciones. Universidad de Zaragoza. Zaragoza, Spain, <i>M. Canales</i> , Dpto. Ingeniería Electrónica y Comunicaciones. Universidad de Zaragoza. Zaragoza, Spain, <i>A. Hernandez-Solana</i> , Dpto. Ingeniería Electrónica y Comunicaciones. Universidad de Zaragoza. Zaragoza, Spain, <i>L. Campelli</i> , Dipartimento di Elettronica e Informazione, Politecnico di Milano, Milano, Italy, <i>M. Cesana</i> , Dipartimento di Elettronica e Informazione, Politecnico di Milano, Milano, Italy and A. Valdovinos, Dpto. Ingeniería Electrónica y Comunicaciones. Universidad de Zaragoza. Zaragoza, Spain
<u>1381</u> Dynamic Core Based Tree(DCBT): An Energy EfficientBroadcast and Multicast RoutingAlgorithm for Mobile Multihop Ad-Hoc Network	Monzer Hossain, Khaled Mahmud and Miftahur Rahman Department of Computer Science and Engineering, North South University, Bangladesh
<u>1208</u> A TDD-CDMA Cellular and Ad- Hoc Hybrid Network with Multi-Hop Connection	Yuji Horii, Riaz Esmailzadeh and Masao Nakagawa Department of Computer and Information Science, Keio University Yokohama, Japan

#### Time: 09:00 – 10:30 Room: 18 Musiksalen WPMC'05

(WM 3) Wireless Access III	Organizer: TPC Chair: Dr. Jorma Lilleberg, Nokia, Finland
<u>1057</u> Performance Evaluation of OFDM/SDMA System with Virtual Subcarrier Assignment (VISA) Using Measured Indoor Channel Data	Yunjian Jia, Quoc Tuan Tran and Shinsuke Hara Graduate School of Engineering, Osaka University, Japan
<u>1067</u> On the Reverse Link Capacity of the Joint Multiple Access (CDMA and SDMA) System with Inter-Cell Interference	<i>Chee Kyun Ng</i> , Department of Computer and Communication Systems, Universiti Putra Malaysia, Malaysia. Engineering, <i>Sabira Khatun</i> , Department of Computer and Communication Systems Engineering, <i>Borhanuddin Mohd Ali</i> , Department of Computer and Communication Systems Engineering <i>Sudhanshu Shekhar Jamuar</i> , Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Putra Malaysia, Malaysia <i>and Mahamod Ismail</i> , Department of Electrical, Electronic and System Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia, Malaysia
<u>1222</u> Adaptive Channel Selection Technique for Dual-Band Wireless LAN System	Satoru Harada and Shinichi Miyamoto Graduate School of Engineering, Osaka University, Japan
<u>1245</u> Multipath Compensation by Using Template Waveform Processing in UWB Radio	Kohei Ohno and Tetsushi Ikegami Department of Electronics and Communication, Meiji University, Japan

Time: 10:50 – 12:30 Room: 18 Musiksalen WPMC'05	
(WM 9) Mobile Platform Security Special Session I	Organizer: Dr. Anand R. Prasad, NTT DoCoMo Eurolab., Germany, Dr. A. Selim, Intel Corp., USA and Dr. N. Dabbous, GemPlus, USA Chair: Dr. Anand R. Prasad, NTT DoCoMo Eurolab., Germany
<u>2043</u> On Supporting Multicast and Delegation in Hi3	Murugaraj Shanmugam, Technical University Hamburg- Harburg, Germany, Franz Muenz, Fachhochschule Landshut, Germany, Hannes Tschofenig, Siemens AG, Germany and Andrei Gurtov, Helsinki Institute for Information Technology, Finland
<u>1410</u> Mobile Platform Security & Seamless Roaming	<i>Alan Crouch, Dan Dahle and Veeraiyan M. Kandasamy</i> Intel Corporation, USA
2005 Secure Access Over Multi-Hop Relay Extensions of Public Networks	Rainer Falk, Siemens Corporate Technology, Germany, Hannes Tschofenig, Siemens Corporate Technology, Germany and Anand Prasad, DoCoMo Comm. Labs. Europe GmbH,Germany

Time: 13:30 – 15:30 Room: 18 Musiksalen WPMC'05	
(WA 15) Mobile Platform Security Special Session II	Organizer: Dr. Anand R. Prasad, NTT DoCoMo Eurolab., Germany, Dr. A. Selim, Intel Corp., USA and Dr. N. Dabbous, GemPlus, USA
	Chair: Prof. Emmanuel Protonotarios, NTUA, Greece
<u>2017</u> Location-Based Key	Ritsu Nomura, ICT Solution Dept., Kobe Works, Mitsubishi
Management for Ubiquitous Wireless	Electric Corporation, Japan, Masahiro Kuroda, National
Network	Institute of Information and Communications Technology, Japan <i>and Daisuke Inoue</i> , National Institute of Information and Communications Technology, Japan
2029 Context-Awareness, Security and	Sven Lachmund, DoCoMo Euro-Labs, Germany, Frank
Trust	<i>Fransen,</i> TNO, The Netherlands <i>and Eddy Olk,</i> TNO, The Netherlands
2504 Trustworthy User-Centric	Mario Hoffmann and Jan Peter StotzFraunhofer SIT,
Identity Management Based on	Germany
Personalised Java Cards	
2041 Attribute-Based Authentication	Manoj R. Sastry and Michael J. Covington
Using Trusted Platforms	Corporate Technology Group, Intel Corporation

Time: 15:50 – 17:50 Room: 18 Musiksalen WPMC'05	
(WA 21) Wireless Security III	Organizer: TPC Chair: Dr. M. Imine, CTIF, Aalborg University, Denmark

<u>1284</u> Efficient Designated VerifierSignature Scheme for Mobile Network	Rui Zhang and Hideki Imai University of Tokyo, Japan.
<u><i>1289</i></u> Fast Transient MAC Address Scheme Based on Prearranged Update	Daisuke Inoue, Masahiro Kuroda and Kentaro Ishizu National Institute of Information and Communications Technology, Japan
<u>1354</u> Broadcast Encryption Schemes Designed for Low-Bandwidth Wireless Communication	Nuttapong Attrapadung, Kazukuni Kobara and Hideki Imai Institute of Industrial Science, University of Tokyo, Japan
<u>1371</u> Radio-Independent Mobile Authentication Protocol for Ubiquitous Network	<i>Masahiro Kuroda,</i> National Institute of Information and Communications Technology, Japan <i>and Ritsu Nomura,</i> ICT Solution Dept., Kobe Works, Mitsubishi Electric Corporation, Japan

Time: 09:00 – 10:30 Room: 20 Det Lille Teater WPMC'05	
(WM 4) Broadband Rollout and the Role of Wireless Special Session	Organizer: Prof. Knud Erik Skouby, Center for Information and Communication Technologies, CICT Technical University of Denmark, Denmark Chair: Prof. Knud Erik Skouby, Center for Information and Communication Technologies, CICT Technical University of Denmark, Denmark
Overview of Strategies and access technologies - results from BREAD	Prof Peter van Daele, IMEC/ Ghent University
A Techno/ economic model for alternative Broadband Access Technologies	Halldor Sigurdsson, CICT, Technical University of Denmark
Wireless Access	Steffen Ring, Director Motorola
DVB-H as Broadband Access Technology	Reza Tadayoni, CICT, Technical University of Denmark

Time: 10:50 – 12:30 Room: 20 Det Lille Teater WPMC'05	
(WM 10) Multimedia, Networks and Systems Special Session	Organizer: TPC Chair: Prof. Witold A. Krzymien, University of Alberta, Cananda
Heterogeneous Mobile Networks	<i>Prof. Ramon Agusti,</i> Universitat Politècnica de Catalunya (UPC), Spain
Mobile Multimedia Applications - Trends in Networks and Systems	Prof. Peter Jung, Universität Duisburg-Essen, Germany

Trends in Satellite Communications:	Dr. Sastri Kota, Harris Corporation, U.S.A
Personal and Mobile Applications	

Time: 13:30 – 15:30 Room: 20 Det Lille Teater WPMC'05	
(WA 16) Indian Wireless Mission and Future Technologies Special Session	Organizer: Dr. Ashok Chandra, Ministry of Communications & IT, Government of India, India Chair: Dr. Ashok Chandra, Ministry of Communications & IT, Government of India, India
<u>2033</u> Surging Ahead - Changing Indian Telecom Scenario - from Rural India Perspective	P. Arun Kumar, Telepoint Services Pvt., Ltd. (India), India
<u>2018</u> OFDM - An Overview in the Context of Future Generations of Mobile Communication	Anuradha Basu, Bharati Vidyapeeth's College of Engineering., New Delhi, India
<u>2010</u> Wireless Sensor Networks - An Algorithmic Approach	Shirshu Varma and U.S. Tiwary, Indian Institute of Information Technology, Allahabad, India
2511 Telecom Regulation in India	Rajendra Singh and Sapna Sharma Telecom Regulatory Authority of India, India
2512 The Economics of 4G Mobile Communication Spectrums: Analysing Industry & Financial Implications	Tarun Pandeya, Birla Institute of Technology, India
<u>2514</u> Growth of Mobile Telephony in India	T.R. Dua, Bharti Cellular Ltd., India

### Time: 15:50 – 17:50 Room: 20 Det Lille Teater WPMC'05

(WA 22) Wireless Access VI	Organizer: TPC Chair: Dr. Sastri Kota, Harris, U.S.A.
Invited Speaker	Speaker: Joe Lomako, RFI Global Services Ltd., UK Title: The EMF Directive, General RF Exposure Standards and its Implications to the Wireless Industry
<u>1226</u> A Complexity-Reduced Time Alignment Control with a 2-Step Precedence Path Detection in Uplink Dynamic Parameter Controlled OF/TDMA	Ryota Kimura, Graduate School of Global Information and Telecommunication Studies (GITS), Waseda University, Japan, Ryuhei Funada, National Institute of Information and Communications Technology (NICT), Japan, Hiroshi Harada, National Institute of Information and Communications Technology (NICT), Japan and Shigeru Shimamoto, Graduate School of Global Information and Telecommunication Studies (GITS), Waseda University, Japan
<u>1278</u> Multi-User Synchronization in Ad-Hoc OFDM-Based Wireless Personal Area Networks	Victor P. Gil Jimenez and Ana Garcia Armada Dept. Signal Theory and Communications University Carlos III de Madrid, Spain

<i>1279</i> Performance Evaluation of	Hidekazu Gomi, National Institute of Information and
Dynamic Parameter Controlled	Communications Technology, Japan and Graduate School of
OF/TDMA Based on PR-DSMA	Science and Engineering, Chuo University, Japan, Hiroshi
	Harada, National Institute of Information and
	Communications Technology, Japan and Shoji Shinoda,
	Graduate School of Science and Engineering, Chuo
	University, Japan
<u>1305</u> PAPR Reduction Method Using	Tomohiro Inada, Takeshi Hattori and Kenzo Nakamura
Rate Adaptation Scheme in OFDM	Department of Electrical and Electronics Engineering
System	Sophia University, Japan

## Time: 09:00 – 10:30 Room: 9 Latinerstuen WPMC'05

(WM 5) Time Reversal Special Session	Organizer: Dr. Persefoni Kyritsi, Stanford University, USA Chair: Dr. Persefoni Kyritsi, Stanford University, USA
<u>2006</u> Optimally Designed Time Reversal and Zero Forcing Schemes	Persefoni Kyritsi, Department of Mathematics, Stanford University, USA, George Papanicolaou, Department of Mathematics, Stanford University, USA and Chrysoula Tsogka, Department of Mathematics, University of Chicago, USA
<u>2015</u> Time Reversal Transmission Potential for Multi-User UWB Communications	Hung Tuan Nguyen, Istvan Zsolt Kovacs and Patrick C.F. Eggers Department of Communication Technology, Aalborg University, Denmark
<u>2030</u> Experimental Wideband Time Reversal and Application to Communication	<i>G. Lerosey, J. de Rosny, A. Tourin, A. Derode and M. Fink</i> Laboratoire Ondes et Acoustique, ESPCI, CNRS, France
<u>2048</u> Improving on Time-Reversal with MISO Precoding	Robert C. Daniels and Robert W. Heath Jr. The University of Texas at Austin, Wireless Networking and Communications Group, USA
<u>2044</u> Time Reversal and Zero Forcing for WLAN Applications	<i>Persefoni Kyritsi,</i> Department of Mathematics, Stanford University, USA, <i>George Papanicolaou,</i> Department of Mathematics, Stanford University, USA <i>and Petre Stoica,</i> Department of Systems and Control, Uppsala, Sweden

Time: 10:50 – 12:30 Room: 9 Latinerstuen WPMC'05	
(WM 11) Testing for Telecom: Products, Hardware, Software Special Session	Organizer: Dr. Sunil Godse, Flextronics Software, India Chair: Dr. Sunil Godse, Flextronics Software, India
<u>2026</u> Automated Testing of Telecom Software: Concept and Practical Realization	Vikas Nagpal and Anoop Sharma Flextronics Software Systems, Gurgaon, Haryana, India

2023Introduction of Test Automationin Established Telecom Applications2507Use of DOORS for Test Design	Gurpreet S. Sachdeva, Flextronics Software Systems Ltd., Gurgaon, Haryana, India Sriram Jatla, Telelogic, India
and Validation in Telecom Systems2508Automation Solutions andStandard Languages for TelecomTesting	Sriram Jatla, Telelogic, India

Time: 13:30 – 15:30 Room: 9 Latinerstuen WPMC'05	
(WA 17) Wireless Access V	Organizer: TPC Chair: Dr. Kari Pehkonen, Nokia Technology Platforms, Finland
<u>1084</u> V-BLAST Based SIMO/MIMO Multi-User Systems	Junyi Wang and Kiyomichi Araki Graduate School of Science and Engineering, Tokyo Institute of Technology, Japan
<u>1104</u> Noise Performance Improvement in CDMA	Rakesh Kumar Shah, V.D.C Sukhipur, W.A.R.D.N- 2, Siraha, Nepal, Muhammad Zaid Musaddeq, Bazar, Kishorgonj, Bangladesh and Mohammad Ashraf Ali Khan, Khulna University, Bangladesh
<u>1128</u> End-to-End QoS Guarantee in Wireless Hierarchical Heterogeneous Networks Based on a Distributed RRM Platform	Sofoklis A. Kyriazakos, Center for TeleInFrastruktur (CTIF), Aalborg University, Denmark, Evangelos Gkroustiotis, Telecommunications Laboratory, National Technical University of Athens, Greece and Nikolaos Papaoulakis, Telecommunications Laboratory, National Technical University of Athens, Greece
<u>1166</u> Improved Prediction-Based Closed Loop Power Control in CDMA Systems	<i>Adit Kurniawan</i> , Department of Electrical Engineering, Bandung Institute of Technology, Indonesia
<u>1366</u> Pre- and Post-DFT Combining Space Diversity Receiver for Wideband Multi-Carrier Systems	Muhammad Imadur Rahman, Suvra Sekhar Das, Frank H.P. Fitzek and Ramjee Prasad Center for TeleInFrastruktur (CTIF), Aalborg University, Denmark

Time: 15:50 – 17:50 Room: 9 Latinerstuen WPMC'05	
(WA 23) Cross-Layer Design for Wireless Networks Special Session	Organizer: Prof. Mary Ann Ingram, Georgia Institute of Technology, USA Chair: Prof. Mary Ann Ingram, Georgia Institute of Technology, USA

<u>2045</u> Network-Centric versus User- Centric Resource Allocation in	<i>Holger Boche</i> , Fraunhofer Institute for Telecommunications, Heinrich-Hertz-Institut (HHI), Germany, Fraunhofer German-
Wireless Networks	Sino Lab for Mobile Communications MCI, Berlin, Germany and Technical University of Berlin, Heinrich Hertz Chair for Mobile Communications <i>and Martin Schubert</i> , Fraunhofer German-Sino Lab for Mobile Communications MCI, Berlin, Germany
<u>2058</u> Linear and Non-Linear Receiver	Hemabh Shekhar, Karthikeyan Sundaresan, Mary Ann
Processing in MIMO Ad-Hoc	Ingram and Raghupathy Sivakumar
Networks	School of Electrical and Computer Engineering Georgia
2038 Modular Cross-Layer	Institute of Technology, Atlanta, USA Johannes Brehmer and Wolfgang Utschick
Optimization Based on Layer	Institute for Circuit Theory and Signal Processing, Munich
Descriptions	University of Technology, Germany
-	
<u>2012</u> Power Efficient Broadcasting with Cooperative Diversity in Ad Hoc	<i>Gentian Jakllari,</i> Department of Computer Science and Engineering University of California, Riverside, USA,
Networks	Srikanth V. Krishnamurthy, Department of Computer Science
	and Engineering University of California, Riverside, USA,
	Michalis Faloutsos, Department of Computer Science and
	Engineering University of California, Riverside, USA and
	Prashant Krishnamurthy, Department of Information
	Sciences and Telecommunications, University of Pittsburgh,
	USA
2008 A Scalable Approach for	Taiwen Tang, Wireless Networking & Communications
Feedback in MIMO Spatial	Group, Department of Electrical & Computer Engineering,
Multiplexing with Linear Receivers	The University of Texas at Austin, USA, <i>Robert W. Heath Jr</i> ,
	Wireless Networking & Communications Group, Department of Electrical & Computer Engineering, The University of
	Texas at Austin, USA, <i>Sunghyun Cho</i> , Samsung Advanced
	Institute of Technology, Korea and Sangboh Yun,
	Samsung Advanced Institute of Technology, Korea
2510 A Cross-Layer-Metric for IP	Armin Dekorsy and Markus Bauer
based Resource Management in Next Generation Networks	Bell Labs Europe, Lucent Technologies, Germany
	1

#### Time: 09:00 – 10:30 Room: 8 Bondestuen WPMC'05

(WM 6) Personal Networks IV	Organizer: TPC Chair: Dr. Sonia Heemstra de Groot, WMC, The Netherlands
<u>1361</u> IR-UWB Experimental Interference Studies on Selected Legacy Services	Beatriz Quijano, Alvaro Alvarez, Manuel Lobeira and Jose Luis Garcia Advanced Communication Reasearch and Development (ACORDE S.A), University of Cantabria, Spain
<u>1145</u> Impact of Frequency Offsets and IQ Imbalance on MC-CDMA Reception Based on Channel Tracking	Francois Horlin, Stefaan De Rore, Eduardo Lopez-Estraviz, Frederik Naessens and Liesbet Van der Perre IMEC, Belgium

2052 Mapping IST-MAGNET MC-SS Air Interface on the Configurable Baseband SoC of IST-4More: A Case Study	D. Noguet, Y. Durand, L. Maret and M. des Noes CEA / DRT / DCIS, France
<u>1001</u> Multiple-Access Interference in FM-UWB Communication Systems	John F.M. Gerrits, Centre Suisse d'Electronique et de Microtechnique SA, Neuchâtel, Switzerland, John R. Farserotu, Centre Suisse d'Electronique et de Microtechnique SA, Neuchâtel, Switzerland and John R. Long, Electronics Research Laboratory/DIMES, Delft University of Technology, The Netherlands

Time: 10:50 – 12:30 Room: 8 Bondestuen WPMC'05	
(WM 12) Personal Networks V	Organizer: TPC Chair: Prof. Ignas Niemegeers, Delft University of Technology, The Netherlands
<u>1144</u> Space-Time Block Coding for Uplink Cyclic Prefix CDMA	<i>Francois Horlin, Eduardo Lopez-Estraviz and Liesbet Van der Perre</i> IMEC, Belgium
<u>1159</u> Impact and Compensation of Sample Clock Offset on Up-Link Cyclic Prefix CDMA Systems	Stefaan De Rore, Francois Horlin and Liesbet Van der Perre Interuniversity Micro-Electronics Center (IMEC) Wireless Research Group, Belgium
<u>1171</u> A Soft-Output Sphere Decoder for MIMO Systems	Zhan Guo, Peter Nilsson and Viktor Owall Department of Electroscience, Lund University, Sweden
<u>1413</u> Computational Platform for Real-Time Channel Measurements Using the Capon Beamforming Algorithm	Fredrik Edman and Viktor Owall Department of Electroscience, Lund University, Sweden
<u>2506</u> Design Considerations for an Integrated Antenna/RF Transceiver for MAGNET HDR Air Interface	Terence E. Dodgson, P. Gardner and Ee Lee Samsung Electronics (UK) Ltd., UK

Time: 13:30 – 15:50 Room: 8 Bondestuen WPMC'05	
(WA 18) Transmission Technology V	Organizer: TPC Chair: Dr. Homayoun Nikookar, Delft University of Technology, The Netherlands
<u>1081</u> A Subtractive Interference Cancellation Scheme for Single Carrier Block Transmission with Insufficient Cyclic Prefix	Kazunori Hayashi and Hideaki Sakai Graduate School of Informatics, Kyoto University, Japan

<u>1172</u> A Consideration on LDPC Coded MIMO OFDM Receiver	Le Khoa Nguyen, Yusuke Akie, Yasunori Iwanami and Eiji Okamoto
Structure	Department of Computer Science and Engineering, Graduate School of Engineering, Nagoya Institute of Technology, Nagoya, Japan
<u>1178</u> Accurate Channel Estimation	Koichi Adachi, Department of Information and Computer
Method Using Decision Feedback	Science, Keio University, Japan, Riaz Esmailzadeh,
Data Symbols After Soft-Decision	Department of Information and Computer Science, Keio
Turbo Decoding in QRM-MLD for	University, Japan, Masao Nakagawa, Department of
OFDM MIMO Multiplexing	Information and Computer Science, Keio University, Japan,
	Hiroyuki Kawai, IP Radio Network Development
	Department, NTT DoCoMo, Inc., Japan and Kenichi Higuchi,
	IP Radio Network Development Department, NTT DoCoMo,
	Inc., Japan
<u>1210</u> Space-Path Division	Shinsuke Ibi, Graduate School of Engineering, Osaka
Multiplexing Technique Over	University, Japan, Seiichi Sampei, Graduate School of
Frequency Selective MIMO Channels	Engineering, Osaka University, Japan and Norihiko
	Morinaga, Dept. of Information Technology, Hiroshima
	International University, Japan
<u>1429</u> Mode Adaptation Combined	Ioannis Dagres and Andreas Polydoros
with Power Allocation for Guaranteed	National and Kapodistrian University of Athens
QoS Constraints in COFDM	Dept. of Physics, Electronics Laboratory, Greece
Transceivers	

Time: 15:50 – 17:50 Room: 8 Bondestuen WPMC'05	
(WA 24) Simplification of User Access to Ubiquitous ICT Services Special Session	Organizer: Dr. Stefano Salsano, University of Roma "Tor Vergata", Italy Chair: Dr. Stefano Salsano, University of Roma 'Tor Vergata', Italy
2037 A Framework for Mobile Interactions with the Physical World	<i>Enrico Rukzio</i> , Media Informatics Group, University of Munich, Germany, <i>Sergej Wetzstein</i> , Media Informatics Group, University of Munich, Germany <i>and Albrecht</i> <i>Schmidt</i> , Embedded Interaction Group, University of Munich, Germany
<u>2031</u> WiOptiMo: Optimised Seamless Handover	S. Giordano, SUPSI – Switzerland, M. Kulig, SUPSI – Switzerland, D. Lenzarini, Forward Information Technologies SA – Switzerland, A. Puiatti, SUPSI – Switzerland, F. Schwitter, SUPSI – Switzerland and S. Vanini, Forward Information Technologies SA – Switzerland
2049 Adaptive Streaming of Multimedia Content: Dealing with Both Terminal and Network Heterogeneity	S. D'Antonio, CINI Consortium, ITEM Laboratory, Napoli, Italy, M. Esposito, CRIAI Consortium, Napoli, Italy, G. Iannello, Universit`a Campus Bio-Medico, Rome, Italy S.P. Romano, Universit`a di Napoli "Federico II", Napoli, Italy and L. Vollero, Universit`a Campus Bio-Medico, Rome, Italy

2004 Performance Analysis of the Simplicity Project: A Layered Queueing Network Approach	<i>Francesco Lo Presti,</i> Dipartimento di Informatica, Universit`a dell'Aquila, Italy
2025 Distribution and Synchronization of Context Modeling Mechanisms Between Servers and Clients on the Web	<i>Michael Hinz and Zoltan Fiala</i> Dresden University of Technology, Department of Computer Science, Germany

Time: 09:00 – 10:30 Room: 12 Wardrobe area below Vestibule WPMC'05	
Poster Session: Multimedia, Networks and Systems I	Organizer: TPC
<u>1285</u> Cross-Layer Error Detection for H.264 Video over UMTS	Olivia Nemethova, Wolfgang Karner, Ameen Al-Moghrabi and Markus Rupp Vienna University of Technology, Institute of Communications and RF Engineering, Austria
<u>1140 MR-Proxy</u> Based solution for	Mehdi Sabeur, Badii Jouaber and Djamal Zeghlache
Nested Mobile Network Problems	GET-INT, France
<u>1175</u> Performance Evaluation of	L. Zhang, W.A.C. Fernando, H. Kodikara Arachchi and K.K.
H.264 Codec in the WCDMA	Loo
Wireless Environments	School of Engineering and Design, Brunel University, UK
<u>1193</u> 802.11 Modifications for WLAN-UMTS Integration at Radio Access Level	<i>Natasha Vulic,</i> Wireless and Mobile Communications, Delft University of Technology, Delft, The Netherlands, <i>Sonia</i> <i>Heemstra de Groot,</i> University of Twente and Twente Institute for Wireless and Mobile Communication, Enschede, The Netherlands <i>and Ignas Niemegeers,</i> Wireless and Mobile Communications, Delft University of Technology, Delft, The Netherlands
<u>1209</u> A Statistical Modelling versus	Reetu Singh, D.I.B.E, University of Genova, Italy, Carlo S.
Geometrical Location Determination	Regazzoni, D.I.B.E, University of Genova, Italy and Kostas
Approach for Static Positioning in	N. Plataniotis, Edward S. Rogers department, University of
Indoor Environment	Toronto, Ontario, Canada
<u>1252</u> An Optimized Point-to-Point	Pedro Manarte, ADETTI, Lisbon, Portugal and Americo
MBMS Mode Scheduling Scheme	Correia, Instituto de Telecomunicações (IT), Lisbon, Portugal
<u>1307</u> Optimal Transmit Power	Mike J. Hart and Sunil Vadgama
Balancing in Multi-Hop Networks	Fujitsu Laboratories of Europe, Ltd., UK
<u>1309</u> Context-Sensitive Service Discovery: Experimental Prototype and Evaluation	Robin Balken, Jesper Haukrogh, Jens Lund Jensen, Morten Nedergaard Jensen, Lars Jessen Roost, Per Nesager Toft, Rasmus L. Olsen and Hans-Peter Schwefel Center for TeleInFrastruktur, CTIF, Aalborg University, Denmark

<u>1314</u> Performance Enhancements of UMTS Networks Using End-to-End QoS Provisioning	Haibo Wang, Devendra Prasad, Oumer Teyeb and Hans Peter Schwefel Center for TeleInfrastructur (CTIF), Department of Communication Technology, Aalborg University, Denmark
<u>1322</u> Optimising Wireless Access	<i>A.L. Wilson, A. Lenaghan and R. Malyan</i>
Network Selection to Maintain QoS in	Networking and Communications Group, Kingston
Heterogeneous Wireless Environments	University, UK

### Time: 10:50 – 12:30 Room: 12 Wardrobe area below Vestibule WPMC'05

WFMC 03		
Poster Session: Multimedia, Networks and Systems II	Organizer: TPC	
<u>1037</u> A Cross-Layer Approach of QoS Support in Multihop Wireless Networks	<i>Hongtao Tian,</i> Positioning & Wireless Technology Center, Nanyang Technology University, Singapore, <i>Choi Look Law,</i> Positioning & Wireless Technology Center, Nanyang Technology University, Singapore, <i>Sanjay K. Bose,</i> Positioning & Wireless Technology Center, Nanyang Technology University, Singapore <i>and Wendong Xiao,</i> Pervasive Signal Processing Department Institute for Infocomm Research, Singapore	
<u>1043</u> A Multicast Protocol Avoiding Unnecessary Data Forwarding with Source Distinction in Mobile Ad Hoc Networks	Motoki Shirasu, Yasuhiro Tsutsui, Takeshi Murakami and Iwao Sasase Dept. of Information and Computer Science, Keio University Yokohama, Kanagawa, Japan	
<u>1072</u> Radio Performance Evaluation of an Enhanced UTRAN Architecture	Jose Monserrat, Narcis Cardona, David Gomez-Barquero and Lorenzo Rubio Institute for Telecommunications and Multimedia Applications (iTEAM), Mobile Communications Group, Polytechnic University of Valencia (UPV), Spain	
<u>1089</u> UE Distance Estimation Technique Using the RACH Propagation Delay on UMTS Networks	David Argiles, Vicente Soler, J.M. Fernandez and Narcis Cardona Institute of Telecommunications & Multimedia Applications (iTEAM), Mobile Communications Group, Technical University of Valencia (UPV), Spain	
<u>1120</u> Coexistence Performance of WiMAX in HAP and Multiple- Operator Terrestrial Deployments in Shared Frequency Bands	<i>Z. Yang, D. Grace and P.D. Mitchell</i> Communications Research Group, Department of Electronics, University of York, UK	
<u>1124</u> Performance of Static WCDMA Simulator	Jarno Niemela, Jakub Borkowski and Jukka Lempiainen Institute of Communications Engineering, Tampere University of Technology, Finland	
<u>1125</u> Impact of Pilot Pollution on SHO Performance	Tero Isotalo, Jarno Niemela, Jakub Borkowski and Jukka Lempiainen Institute of Communications Engineering, Tampere University of Technology, Finland	

<u>1126</u> Using Idle Mode E_c/N_0 Measurements for Network Plan Verification	Jarno Niemela, Jakub Borkowski and Jukka Lempiainen Institute of Communications Engineering, Tampere University of Technology, Finland
<u>1387</u> Performance of IP Header Compression Over Correlated Multiple Channels	Tatiana Kozlova Madsen, Frank H.P. Fitzek, Yasushi Takatori and Ramjee Prasad Center for TeleInFrastruktur (CTIF), Department of Communications Technology, Aalborg University, Denmark
<u>1419</u> A WLAN Planning Tool with a Practical Approach	Ricardo Tome, IC R&D WON - Siemens, Portugal, Pedro Lourenco, Business Intelligence - PARAREDE TI, Portugal, Antonio Grilo, INESC/IST, Portugal, Francisco Cercas, Instituto de Telecomunicações, Portugal, Antonio Rodrigues, Instituto de Telecomunicações, Portugal, Fernando Velez and Pedro Sebastiao, Instituto de Telecomunicações, Portugal

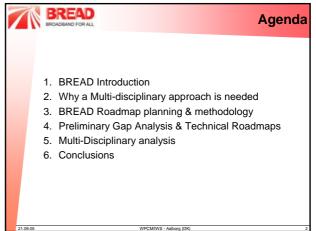
Time: 13:30 – 15:50 Room: 12 Wardrobe area below Vestibule WPMC'05	
Poster Session: Wireless Access II	Organizer: TPC
<u>1034</u> A Novel Scheme of Phase Noise Suppression with Time Division Pilot Signals in OFDM System	Shogo Fukuda, Takeshi Hattori and Kenzo Nakamura Department of Electrical and Electronics Engineering, Sophia University, Japan
<u>1055</u> Capacity Evaluation of Cellular MC-CDMA	<i>Filippo Giannetti and Aldo N. D'Andrea</i> University of Pisa, Department of Information Engineering, Italy
<u>1111</u> STBC Distributed ARQ with Packet Combining for OFDM Ad-Hoc Communication Systems	<i>Takeo Fujii, Erina Kojima, Yukihiro Kamiya and Yasuo Suzuki</i> Department of Electrical and Electronic Engineering, Tokyo University of Agriculture and Technology, Japan
<u>1116</u> Performance Evaluation of MIMO-MC-CDMA Using Varied Sub-Carrier Spreading Code Schemes	Rina Pudji Astuti, Department of Electrical Engineering, Institut Teknologi Bandung, Indonesia and Department of Electrical Engineering, Sekolah Tinggi Teknologi Telkom, Indonesia, Gelar Budiman, Department of Electrical Engineering, Sekolah Tinggi Teknologi Telkom, Indonesia, Suhartono Tjondronegoro, Department of Electrical Engineering, Institut Teknologi Bandung, Indonesia, NULL Sugihartono, Tati L.R. Mengko, Department of Electrical Engineering, Institut Teknologi Bandung, Indonesia and Andriyan B. Suksmono, Department of Electrical Engineering, Institut Teknologi Bandung, Indonesia

<u>1121</u> OFDM-CDMA Transmit Diversity System with Antenna Selection and Pilot Tone	<i>Zoran Veljovic</i> , University of Montenegro, Department of Electrical Engineering, Serbia and Montenegro, <i>Milica</i> <i>Pejanovic</i> , University of Montenegro, Department of Electrical Engineering, Serbia and Montenegro, <i>Igor</i> <i>Radusinovic</i> , University of Montenegro, Department of Electrical Engineering, Serbia and Montenegro <i>and Elvis</i> <i>Babacic</i> , Agency for Telecomunications, Serbia and Montenegro
<u>1141</u> Radio Resource Management Techniques for Balancing the Traffic on UMTS	<i>N. Papaoulakis and S. Kyriazakos</i> Telecommunications Laboratory National Technical University of Athens, Greece
<u>1215</u> Performance of the OFDM Space-Time Receive Diversity System in the Presence of Frequency Offset	<i>Enis Kocan and Milica Pejanovic-Djurisic</i> Department of Electrical Engineering, University of Montenegro, Serbia and Montenegro
<u>1315</u> Single Cell OFDMA/SDMAAllocation Algorithm for MultipleUsers in Real Systems	Mauro Borgo, Matteo Butussi and Silvano Pupolin University of Padova – Department of Information Engineering, Italy
<u>1404</u> Synchronization with TCH Codes	Nuno Souto, Instituto Superior Técnico/IT, Portugal, Joao Carlos Silva, Instituto Superior Técnico/IT, Portugal, Francisco Cercas, ADETTI/IT, Portugal, Alexandre Almeida, ADETTI/IT, Portugal, Antonio Rodrigues, Instituto Superior Técnico/IT, Portugal and Americo Correia, ADETTI/IT, Portugal
<u>1411</u> Bluetooth Connectivity Issues for M-Health Applications	Ying Zou, Xinheng Wang, Robert S.H. Istepanian and Nada Philip Mobile Information and Network Technology Research Centre, Kingston Universtiy, United Kingdom
<u><i>1423</i></u> The Trade-Off Between Frequency Diversity and Spreading Factor in a MC-DS-CDMA System	Yongfeng Chen and Elvino Sousa Dept. of ECE, University of Toronto, Canada
<u>1313</u> Fairness Enhancement in a Self- Configuring Cluster-Based Wireless Ad Hoc Network	J. Alonso, Telecommunications Technological Centre of Catalonia (CTTC), Spain, C. Verikoukis, Telecommunications Technological Centre of Catalonia (CTTC), Spain and L. Alonso, Dept. of Signal Theory and Communications – Technical University of Catalonia (UPC), Spain

Time: 15:50 – 17:50 Room: 12 Wardrobe area below WPMC'05	Vestibule
Poster Session: Digital Signal Processing	Organizer: TPC

<u>1106</u> A Study of Relat Between Spatial and T of Space-Time Process Wireless Communicat Frequency Selective C	emporal Entities sing for MIMO ions in	Ming Fei Siyau, London South Bank University, UK, Dept. of Electrical, Computer & Communications Engineering, UK, Kok Keong Loo, School of Engineering and Design, Brunel University, UK and Anjum Pervez, Dept. of Electrical, Computer & Communications Engineering, UK
<u>1138</u> H.264 Based Ster Coding	reoscopic Video	A.B.B. Adikari, W.A.C. Fernando, H. Kodikara Arachchi and K.K. Loo School of Engineering and Design, Brunel University, UK
<u>1184</u> Multi-Channel B Sampling with Inverse Software Defined Rad	Placement in	Miheung Choe, Jintae Park, Kyuongwoo Lee and Kiseon Kim Kyungwon Ferrite Ind. Co., Ltd. Research Center, Republic of Korea
<u>1195</u> Developing of Re Tracking System Usin Subspace-Based Algor	g an Efficient	Naoyuki Hirosaki, National Institute of Information and Communication Technology, Japan and School of Integrated Design Engineering, Keio University, Japan, <i>Hiroyuki Tsuji</i> , National Institute of Information and Communication Technology, Japan, <i>Ryu Miura</i> , National Institute of Information and Communication Technology, Japan <i>and</i> <i>Akira Sano</i> , School of Integrated Design Engineering, Keio University, Japan
<u>1204</u> Fast System- Level Design of Wireless Applications	Yannick Le Moullec, Center for Embedded Systems (CISS), AalborgUniversity, Denmark, Soren Skovgaard Christensen, Center forEmbedded Systems (CISS), Aalborg University, Denmark and KOMDepartment, Aalborg University, Denmark, Wen Chenpeng, KOMDepartment, Aalborg University, Denmark, Peter Koch, Center forEmbedded Systems (CISS), Aalborg University, Denmark and KOMDepartment, Aalborg University, Denmark, Peter Koch, Center forEmbedded Systems (CISS), Aalborg University, Denmark and KOMDepartment, Aalborg University, Denmark and Sebastien Bilavarn,Signal Processing Institute, EPFL, Lausanne, Switzerland	
<u>1407</u> Partitioned MMSE Receiver for Wideband CDMA Systems	Joao Carlos Silva, Instituto Superior Técnico/IT, Portugal, Sergio Jesus, Instituto Superior Técnico/IT, Portugal, Nuno Souto, Instituto Superior Técnico/IT, Portugal, Francisco Cercas, ADETTI/IT, Portugal, Rui Dinis, CAPS-IST, CAPS, Portugal, Americo Correia, ADETTI/IT, Portugal and Antonio Rodrigues, Instituto Superior Técnico/IT, Portugal	
<u>1412</u> Optimum Bit- Mapping for Short TCH Codes	Joao Carlos Silva, Instituto Superior Técnico/IT, Portugal, Nuno Souto, Instituto Superior Técnico/IT, Portugal, Antonio Rodrigues, Instituto Superior Técnico/IT, Portugal and Francisco Cercas, ADETTI/IT, Portugal	





BREAD BROADBAND FOR ALL	BREAD Introdu	ction
• IMEC (co-ordinator)		В
University of Essex     Research Center CO		
• Groupe des Ecoles d • FhG/HHI	es Télécommunications	F D
TELSCOM consulting     JRC - Institute of Pro	g spective Technological Studies	CH E
• JCP - Consult		F

PCM/IWS - Aalborg (DK

21.09.05

BREAD BRCADBAND FOR ALL	BREAD Objectives
	<b>plinary</b> view for the realisation of <b>nd for all'</b>
<ul> <li>Combine forces in the a</li> </ul>	irea of
- state-of-the-art results in	R&D on the technological level
<ul> <li>expertise towards the ec adoption of adequate bus</li> </ul>	onomic sustainability and the in-time siness models
	rds the <b>regulatory</b> aspects on EU level customers' and industries' interests
<ul> <li>Develop a more holist as well as economical a</li> </ul>	ic vision encompassing technical, ind regulatory aspects
<ul> <li>Identify roadblocks or</li> </ul>	n European, national/regional level
Share visions and best level (ERA)	practices on national level to EU
•Benchmarking the E	U situation with US & AP develop.
21.09.05	WPCM/WS - Aalborg (DK)

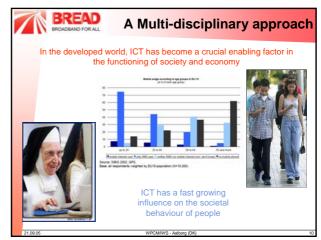


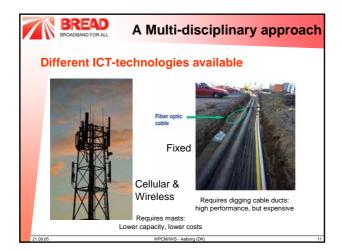
	BREAD Agenda
	<ol> <li>BREAD Introduction</li> <li>Why Multi-disciplinary approach is needed</li> <li>BREAD Roadmap planning &amp; methodology</li> <li>Preliminary Gap Analysis &amp; Technical Roadmaps</li> <li>Multi-Disciplinary analysis</li> <li>Conclusions</li> </ol>
21.09.05	WPCMIWS - Aalborg (DK) 6

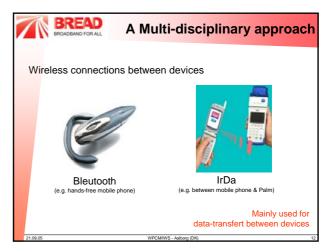






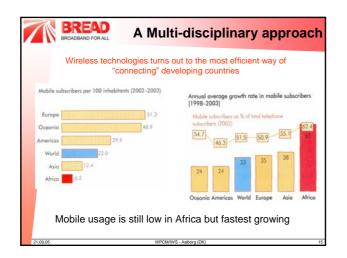




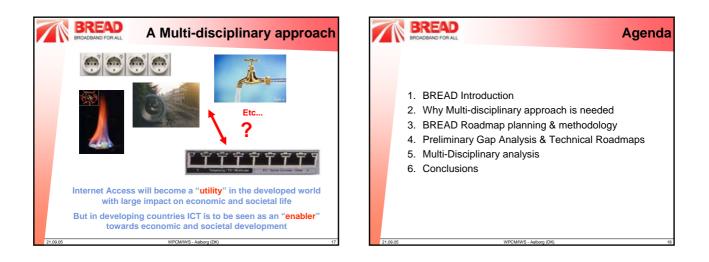




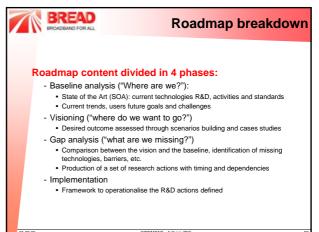




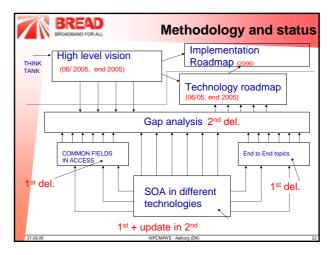


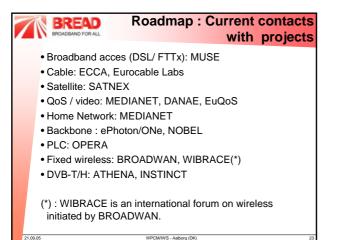


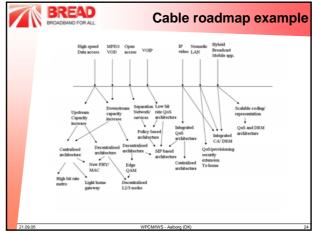












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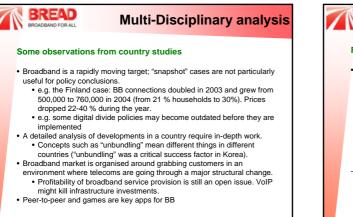
#### Agenda

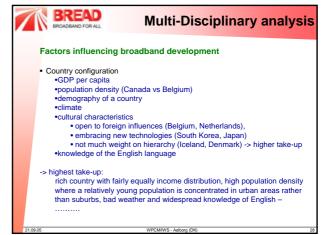
- 1. BREAD Introduction
- 2. Why Multi-disciplinary approach is needed
- 3. BREAD Roadmap planning & methodology
- 4. Preliminary Gap Analysis & Technical Roadmaps
- 5. Multi-Disciplinary analysis
- 6. Conclusions

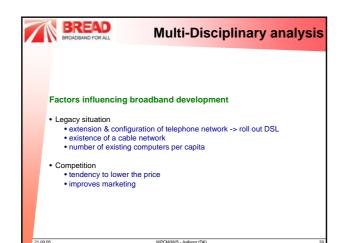
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#### **Multi-Disciplinary analysis**

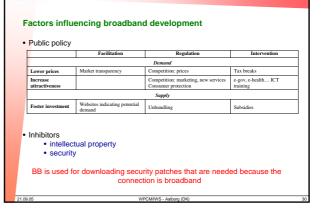
- Development of the techno-economic model
- Development of a database on key national contacts on broadband
- Drafting the « European Broadband Vision »
- Completion of country studies (EU25 + interesting outside)
   Drafting of «lessons of country studies »
- Drafting of «Applications and User Needs » with discussion on broadband user segments and « service packages »







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**Multi-Disciplinary analysis** 

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