International Conference on Digital Telecommunications

Cap Esterel, Côte d'Azur, France
August 29 - 31, 2006

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Preface

The International Conference on Digital Telecommunications (ICDT 2006) initiated a series of special events focusing on telecommunications aspects in multimedia environments. The scope of the conference was to focus on the lower layers of systems interaction and identify the technical challenges and the most recent achievements.

The conference served as a forum for researchers from both the academia and the industry, professionals, and practitioners to present and discuss the current state-of-the art in research and best practices as well as future trends and needs (both in research and practices) in the areas of multimedia telecommunications, signal processing in telecommunications, data processing, audio transmission and reception systems, voice over packet networks, video, conferencing, telephony, as well as image producing, sending, and mining, speech producing and processing, IP/Mobile TV, Multicast/Broadcast Triple-Quadruple-play, content production and distribution, multimedia protocols, H-series towards SIP, and control and management of multimedia telecommunications. The topics were grouped as follows:

MULTE 2006: Multimedia Telecommunications
SIGNAL 2006: Signal processing in telecommunications

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DATA 2006: Data processing
AUDIO 2006: Audio transmission and reception systems
VOICE 2006: Voice over packet networks
VIDEO 2006: Video, conferencing, telephony
IMAGE 2006: Image producing, sending, and mining
SPEECH 2006: Speech producing and processing
IPTV 2006: IP/Mobile TV
MULTI 2006: Multicast/Broadcast Triple-Quadruple-play
CONTENT 2006: Production, distribution
HXSIP 2006: H-series towards SIP
MEDMAN 2006: Control and management of multimedia telecommunications

The first edition of the ICDT held in Cap Esterel, France, August 29-31, 2006, gathered international scientists - researchers, practitioners and students - interested in new developments targeting all areas of digital telecommunications. ICDT 2006 initiated a successful series and was organized and technically sponsored by IEEE and IARIA organizations with proceedings published by the IEEE Computer Society Press.

The accepted papers covered a wide range of telecommunications related topics spanning from signal processing to standards, and management and control systems. We believe that the ICDT 2006

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contributions offered a large panel of solutions to key problems in all areas of digital telecommunications and set challenging directions for industrial research and development.

We take here the opportunity to warmly thank all the members of the ICDT 2006 technical program committee as well as the numerous reviewers. The creation of such a broad and high quality conference program would not have been possible without their involvement. We also kindly thank all the authors that dedicated much of their time and efforts to contribute to the ICDT 2006. We truly believe that thanks to all these efforts, the final conference program consists of top quality contributions.

This event could also not have been a reality without the support of many individuals, organizations and sponsors. We gratefully thank the members of the ICDT 2006 organizing committee for their help in handling the logistics and for their work that is making this professional meeting a success.

We are particularly thankful to the track co-chairs for their contributions in promoting the ICDT 2006.

We hope the ICDT 2006 was a successful international forum for the exchange of ideas and results between academia and industry and to promote further progress in telecommunications research.
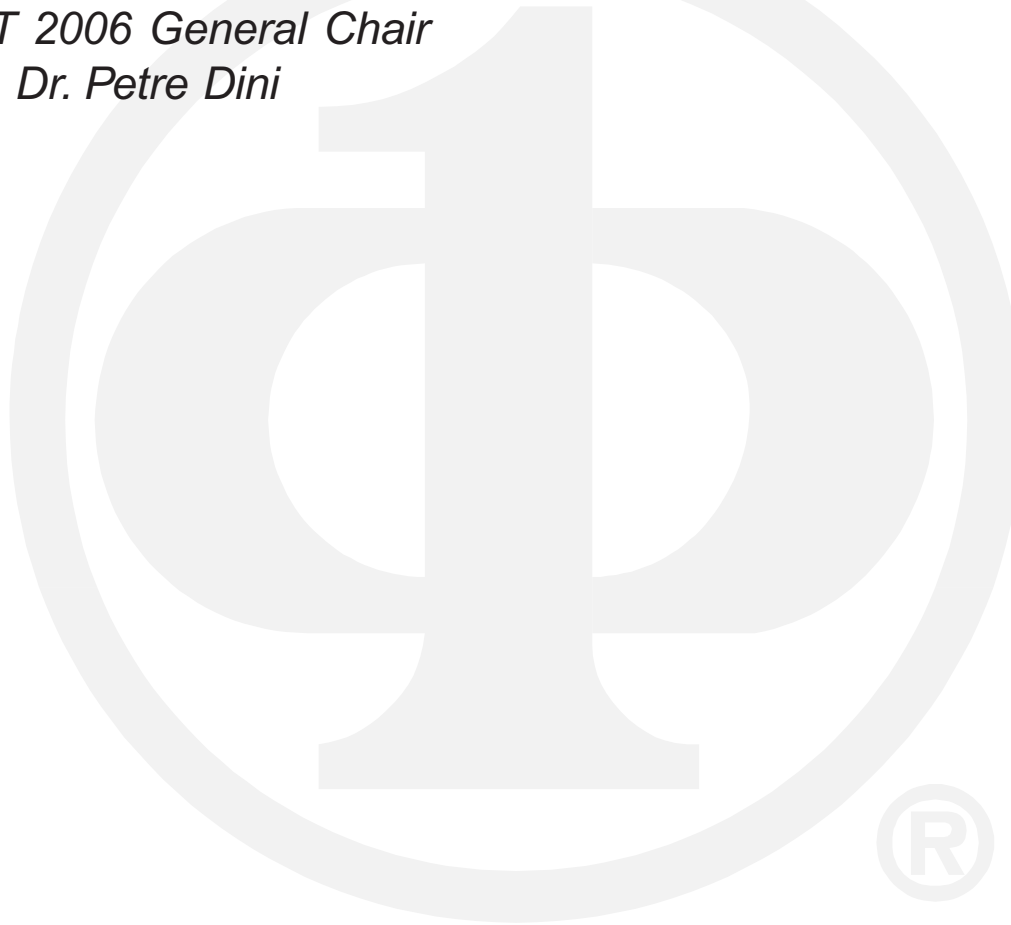
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We hope Côte d'Azur provided a pleasant environment during the conference and everyone saved some time for exploring the Mediterranean Coast.

ICDT 2006 General Chair
Prof. Dr. Petre Dini

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VOICE 2006: Voice over packet networks

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VIDEO 2006: Video, conferencing, telephony

Oliver Heckmann, University of Technology. Darmstadt, Germany

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Ashit Talukder, Jet Propulsion Laboratory, USA

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SPEECH 2006: Speech producing and processing

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MULTI 2006: Multicast/Broadcast Triple-Quadruple-play

Guillaume Urvoy-Keller, Institut Eurecom, France

CONTENT 2006: Production, distribution

Frank Hartung, Ericsson Research, Germany

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HXSIP 2006: H-series towards SIP

Kai Jakobs, Technical University of Aachen's (RWTH), Germany

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❑ A Data-Flow Platform for Implementing Algorithm-Dependent ASIC Hardware Using Data-Driven Processors

A. Bindal, B. Gordon, A. Reynolds, A. Salsbery and B. Wang

❑ Design of Mobile Receiver in Ultrawideband Impulse Radio System Using Time-Hopping and PPM Modulation

Wei-Chiang Wu

❑ Data-Aided Equalization Scheme for Filtered Multitone Modulation System

Weihong Zhu and Zhenming Gao

❑ HNN-Based Multiuser Receiving for Uplink CDMA Systems

Zi-Wei Zheng, Yong-Sheng He and Dan Huang

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ICDT2: SIGNAL II

Session Chair: Yury V. Ivanov

❑ Viterbi Algorithm in Continuous-Phase Frequency Shift Keying

Hailun Tan

❑ Perceptual Acoustic Echo Suppressor for Audio Communication Over Packet Networks

Laurent Pilati and Karima Nasr

❑ Skip Prediction and Early Termination for Fast Mode Decision in H.264/AVC

Yury V. Ivanov and C. J. Bleakley

❑ Spatio-Temporal MIMO Systems for Multiuser Communications Under Frequency Selective Fading

Tetsuki Taniguchi, Nordin Bin Ramli and Yoshio Karasawa

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Session Chair: Patrick J. Honan

❏ **A Novel Channel Estimator Based on Polynomial Fitting Method in PSAM Communication Systems**

Xu Xiaojian, Sui Dan and Hu Hanying

❏ **An Artificial Immune-Based Feature Interaction Detection Method**

Wei Wei and Fangchun Yang

❏ **Adaptive Reduced-Rank Interference Suppression for MIMO Decoding**

Patrick J. Honan, Zhongren Cao and Ufuk Tureli

❏ **Kids Finder through Bluetooth Technology**

Azmi Mohd Yusof, Mohd Ezanee Rusli and Yunus Yusof

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ICDT4: VIDEO I

Session Chair: Petre Dini

❏ **A New Rate Control Scheme for H.264/AVC**

Yongdong Zhang, Wu Yuan and Shouxun Lin

❏ **Collaborative Video Annotation Environments: Implemented Features and a New Approach for Object Detection and Recognition**

Lars Grunewaldt, Kim Möller, Karsten Morisse and Thomas Sempf

❏ **Adaptive Pruned 4×4 DCT Algorithm for H.264**

Dongming Zhang, Shouxun Lin and Yongdong Zhang

❏ **Fast Motion Estimation Using Evolutionary Strategy Search Algorithm**

J. Hay and K. K. Loo

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ICDT5: VIDEO II

Session Chair: Petre Dini

❏ A Fast Coefficients Conversion Method for the Transform Domain MPEG-2 to H.264 Transcoding

Gao Chen, Shouxun Lin and Yongdong Zhang

❏ Fast Frame/Field Coding for H.264/AVC

Lejun Yu, Jintao Li and Yanfei Shen

❏ A Simplified Scalable Wavelet Video Codec with MCTF Structure

Bin Wang, K. K. Loo, P. Y. Yip and M. F. Siyau

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Papers by Session

ICDT6: VIDEO III

Session Chair: Cyril Soldani

- ❑ Multiple Description Coding versus Transport Layer FEC for Resilient Video Transmission

  C. Soldani, G. Leduc, F. Verdicchio and A. Munteanu

- ❑ A Novel Temporal Error Concealment Base on Statistical Pixel Estimation Model

  YuFeng Ma, Anni Cai and Jianguang Guo

- ❑ Performance Comparison of Emerging Dirac Video Codec with H.264/AVC

  K. Onthriar, K. K. Loo and Z. Xue

- ❑ 802.11g WLANs Design for Rural Environments Video-Surveillance

  Jaime Lloret, Pedro V. Mauri, Jose M. Jimenez and Juan R. Diaz

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Session Chair: Hideki Okita

❏ Web Content Management Systems: Using Plone Open Source Software to Build a Website for Research Institute Needs

Serena Pastore

❏ Per-Subscriber On-Demand QoS Assurance in Distributed Web Cache System

Hideki Okita, Toshiaki Suzuki and Mikio Kataoka

❏ Data Popularity and Shortest-Job-First Scheduling of Network Transfers

Simone Lupetti and Dmitrii Zagorodnov

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Session Chair: Petre Dini

❑ **Content-Based Time Sampling for Efficient Video Delivery Over Networks of Low and Variable Bandwidth**

Anastasios D. Doulamis, Dimitrios I. Kosmopoulos and Nikolaos D. Doulamis

❑ **A Novel Palmprint Recognition Algorithm Based on PCA&FLD**

Wei Jiang, Junwei Tao and Lili Wang

❑ **Chaotic Watermarking System for Colour Images Based on Texture Segmentation in Wavelet Transform Domain**

S. Amira-Biad, M. Bouab and M. Khamadja

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Session Chair: Erik Hellerud

❑ Perceptually Controlled Error Protection for Audio Streaming Over IP Networks

Erik Hellerud, Jan Erik Voldhaug and U. Peter Svensson

❑ A Comparative Analysis and Experimental Study on Wireless Aerial and Underwater Acoustic Communications

Raja Jurdak, Cristina Videira Lopes, Pedro M. Q. Aguiar and Pierre Baldi

❑ Two-Stage Classification of Emotional Speech

Zhongzhe Xiao, Emmanuel Dellandrea, Weibei Dou and Liming Chen

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ICDT10: MULTE I

Session Chair: Yoshitaka Takasaki

❏ Synchronized Chaotic Lü System in CDMA Satellite Communication Using Genetic Algorithm

Karim Kemih and Malek Benslama

❏ Sliding Header Schemes for Simplifying Hunting-Free Framer Design for Digital Transmission and Multiplexing

Yoshitaka Takasaki

❏ Novel PAPR Reduction Technique Based on Circular Data Allocation

Saied Abedi

❏ Novel Channel Estimation and Interference Suppression for Uplink Multiuser CDMA Systems

Zi-Wei Zheng, Yong-Sheng He and Dan Huang

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Session Chair: Radek Zezula

❏ Impact of Bit Errors on the DCF Throughput in Wireless LAN Over Ricean Fading Channels

Ha Cheol Lee

❏ Jitter Ratio Based TFRC Scheme in Wireless-Wired Hybrid Network

Qi Li, Di Chen, Yuncai Liu and Lina Zheng

❏ Video Applications Quality Improvement in Wireless Systems: QoS Negotiation and Rate Control

Zeina Jrad, Rim Hammi and Francine Krief

❏ Audio Signal Watermarking in MCLT Domain with the Aid of 2D Pattern

Radek Zezula and Jirí Misurec

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ICDT12: MULTE III

Session Chair: P. Bagheri Zadeh

❑ **A Novel Multiresolution Perceptual and Statistically Based Image Coding Scheme**

P. Bagheri Zadeh, T. Buggy, J. J. Soraghan and A. Sheikh Akbari

❑ **Multiple Description Video Coding Over Multiple Path Routing Networks**

Shaoshuai Gao and Hamid Gharavi

❑ **Power Estimation for an Application on the Xscale Platform Using PMU Events**

Huang Jiangwei, Chen Tianzhou and Qianjie

❑ **A Software Simulation Study of a MD DS/SSMA Communication System with Adaptive Channel Coding**

E. Malan, L. Staphorst and L. P. Linde

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Session Chair: Robert McAdoo

❏ **Towards an Interactive IPTV for Mobile Subscribers**

Adel Al-Hezmi, Yacine Rebahi, Thomas Magedanz and Stefan Arbanowski

❏ **Architectures for Person to Person Communications in Disaggregated Networks**

Robert McAdoo, Patroklos Argyroudis, Linda Doyle and Donal O'Mahony

❏ **Quality of Service Support for ODMRP Unicast Routing in Ad Hoc Networks**

Amir Darehshoorzadeh, M. Reza Jahed Motlagh and Mehdi Dehghan

❏ **Design and Implementation of the High Speed VP (Variable Parameter)-Cubic Interpolator for the System of MB-OFDM UWB**

Kwon-Ki Hong, Sang-Hun Yoon and Jong-Wha Chong

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ICDT14: MULTE V

Session Chair: Tho Le-Ngoc

❑ **Mobile Multimedia End-User Quality of Experience Modeling**

Onoriu Bradeanu, Doru Munteanu, Iulian Rincu and Florin Geanta

❑ **Merging Prioritized Security Policies**

Rania El Baida

❑ **Performance Analysis of Weighted Fair Queues with Variable Service Rates**

Mohamed Ashour and Tho Le-Ngoc

❑ **Distributed Connection Admission Control and Dynamic Channel Allocation in Ad Hoc-Cellular Networks**

Ahmed M. Safwat

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Session Chair: Mohammad Sabbir Alam

❑ **Design for Controlling Media Privacy in SIP Conferencing Systems**

Mohammad Sabbir Alam, Michael Cohen and Ashir Ahmed

❑ **Triple Play Service Simulation and Packet Scheduling Performance Evaluation**

G. P. Sotiropoulos, D. K. Styliaras, E. A. Kosmatos, C. A. Papagianni, N. D. Tselikas and I. S. Venieris

❑ **Broadcast Television Services Suited for Mobile Handheld Devices**

Norbert Jordan and Raimund Schatz

❑ **Design and Testing of Two Secure Video Conferencing Applications Based on JMF (Java Media Framework) and VIC (Video Conferencing Tool)**

L. Mengual, J. Bobadilla, R. Caballero and G. Hernández

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ICDT16: DATA I

Session Chair: Sergei Semenov

- ❑ **Providing the QoS with the Help of Transport Coding**

  Sergei Semenov

- ❑ **Contention MAC Protocols Efficiency Testing in a Small Wireless Network**

  Bartlomiej Zielinski

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