



Session : **Video Coding**
Time: 10:50 – 12:50



JOINT OPTIMIZATION OF SOURCE-CHANNEL VIDEO CODING USING THE H.264 ENCODER AND FEC CODES ([Abstract](#))

Simone Milani (University of Padova, Italy)
Gian Antonio Mian (University of Padova, Italy)
Luca Celetto (STMicroelectronics, Italy)

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A LOW COMPLEXITY MOTION ESTIMATION ALGORITHM FOR VIDEO CODING APPLICATIONS

(Abstract)

Kamran Virk

(Lahore University of Management Sciences, Pakistan)

Nadeem Khan

(Lahore University of Management Sciences, Pakistan)

Shahid Masud

(Lahore University of Management Sciences, Pakistan)

Farooq Nasim

(Lahore University of Management Sciences, Pakistan)

Syed Idris

(Lahore University of Management Sciences, Pakistan)

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AN EFFICIENT VIDEO RENDERING SYSTEM FOR REAL-TIME ADAPTIVE PLAYOUT BASED ON PHYSICAL MOTION FIELD ESTIMATION ([Abstract](#))

Luca Piccarreta (Politecnico di Milano, Italy)
Augusto Sarti (Politecnico di Milano, Italy)
Stefano Tubaro (Politecnico di Milano, Italy)



OPTIMAL BIT ALLOCATION STRATEGY BASED ON SPATIAL COMPLEXITY AND TEMPORAL CORRELATION ([Abstract](#))

Seung-Hwan Kim (GIST, South Korea)
Geun-Yong Kim (GIST, South Korea)
Jin Heo (GIST, South Korea)
Yo-Sung Ho (GIST, South Korea)



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LOSSLESS VIDEO COMPRESSION USING A SPATIO-TEMPORAL OPTIMAL PREDICTOR (Abstract)

Stefano Andriani (Università di Padova, Italy)

Giancarlo Calvagno (Università' di Padova, Italy)

Gian Antonio Mian (Università' di Padova, Italy)



SIMULATION AND APPLICATION OF DVB CHANNEL CODING ON MULTIMEDIA DSP DEVELOPMENT BOARD (Abstract)

Tomas Kratochvil (Brno University of Technology, Czech Republic)

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INTRA-ADAPTIVE MOTION-COMPENSATED LIFTED WAVELETS FOR VIDEO CODING ([Abstract](#))

Oscar Divorra Escoda (ITS – EPFL, Switzerland)

Markus Flierl (ITS – EPFL, Switzerland)

Pierre Vandergheynst (ITS – EPFL, Switzerland)

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AN ADAPTIVE MOTION ESTIMATION SCHEME USING MAXIMUM MUTUAL INFORMATION CRITERIA
(Abstract)

Jing Zhao	(University of Florida, United States)
Deniz Erdogmus	(OHSU, United States)
Cancan Huang	(University of Florida, United States)
Dapeng Wu	(University of Florida, United States)
Yuguang Fang	(University of Florida, United States)



SPIRAL SCAN IN VIDEO COMPRESSION (Abstract)

Lukasz Blaszak	(Poznan University of Technology, Poland)
Marek Domanski	(Poznan University of Technology, Poland)

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 **LOSSLESS VIDEO CODING USING MULTI-FRAME MOTION COMPENSATION ([Abstract](#))**

Elias Sebastiano (DAUIN–Politecnico di Torino, Italy)
Giuseppe Carotti
Juan Carlos De Martin (IEIT–CNR Politecnico di Torino, Italy)

 **OPTIMAL BIT ALLOCATION IN SCALABLE MULTIPLE DESCRIPTION VIDEO CODING FOR PACKET LOSS RESILIENCE ([Abstract](#))**

Emrah Akyol (Koc University, Turkey)
A. Murat Tekalp (Koc University, Turkey)
M. Reha Civanlar (Koc University, Turkey)



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WHERE TO SPEND THE BITS? EFFICIENCY OF SOURCE AND CHANNEL CODING IN MBMS

(Abstract)

Kemal Ugur	(Nokia Research Center, Finland)
Stephan Wenger	(Nokia Research Center, Finland)
Dong Tian	(TUT, Finland)
Moncef Gabbouj	(TUT, Finland)



ANALYSIS OF THE RESPONSE TIME COMPENSATION SYSTEM FOR LIQUID CRYSTAL DISPLAYS

(Abstract)

Sanjeev Kumar	(University of California, San Diego, United States)
Mainak Biswas	(University of California, San Diego, United States)
Truong Nguyen	(University of California, San Diego, United States)

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COMPRESSION OF VIDEOS CAPTURED VIA BAYER PATTERNED COLOR FILTER ARRAYS

(Abstract)

Marco Carli	(University of Roma TRE, Italy)
Fabio Gastaldi	(University of Roma TRE, Italy)
Alessandro Neri	(University of Roma TRE, Italy)
Chin C. Koh	(UCSB, United States)
Sanjit K. Mitra	(UCSB, United States)

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A CROSS-LAYER APPROACH FOR MINIMUM DELAY CONTENT ADAPTIVE VIDEO STREAMING OVER VARIABLE BITRATE CHANNELS ([Abstract](#))

Tanir Ozcelebi (Koc University, Turkey)
A. Murat Tekalp (Koc University, Turkey)
M. Reha Civanlar (Koc University, Turkey)
M. Oguz Sunay (Koc University, Turkey)



CONSTRAINT TRANSLATIONAL AND ROTATIONAL MOTION FILTERING FOR VIDEO STABILIZATION ([Abstract](#))

Marius Tico (Nokia Research Center, Finland)
Markku Vehviläinen (Nokia Research Center, Finland)

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 **FAST MODE DECISION ALGORITHM FOR H.264 BASED ON MOTION COST ([Abstract](#))**

Geun-Yong Kim (GIST, South Korea)
Seung-Hwan Kim (GIST, South Korea)
Hee-Soon Kim (GIST, South Korea)
Yo-Sung Ho (GIST, South Korea)

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H.264 FAST INTRA-PREDICTION MODE DECISION BASED ON FREQUENCY CHARACTERISTIC
(Abstract)

Takeshi Tsukuba (Waseda University, Japan)
Isao Nagayoshi (Media Glue Corp., Japan)
Tsuyoshi Hanamura (Media Glue Corp., Japan)
Hideyoshi Tominaga (Waseda University, Japan)

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