



Session : **Multirate filtering and filter banks**

Time: 08:30 – 10:30



MINIMUM-PHASE FIR FILTER DESIGN USING REAL CEPSTRUM (Abstract)

Soo-Chang Pei (National Taiwan University, Taiwan)

Huei-Shan Lin (National Taiwan University, Taiwan)



DESIGN OF UNEQUAL-LENGTH LINEAR-PHASE FILTER BANKS WITHOUT REDUNDANCY (Abstract)

Yuichi Tanaka (Keio University, Japan)

Akihiro Ochi (Keio University, Japan)

Masaaki Ikehara (Keio University, Japan)

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DESIGN OF CHANNEL-RESILIENT DFT BANK TRANSCEIVERS (Abstract)

Tzung-Hwui Luo

(National Taiwan University, Taiwan)

Chih-Hao Liu

(National Taiwan University, Taiwan)

See-May Phoong

(National Taiwan University, Taiwan)

Yuan-Pei Lin

(National Chiao-Tung University, Taiwan)

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SPECIAL LOW-ORDER IIR FILTER BANK DESIGN ([Abstract](#))

Zhisheng Duan (Peking University, China)
Jingxin Zhang (Monash University, Australia)
Cisheng Zhang (Nanyang Technological University, Singapore)
Edoardo Mosca (Universita di Firenze, Italy)



PERFORMANCE OF NOISE-SHAPING IN OVERSAMPLED FILTER BANKS ([Abstract](#))

Tania Leppert (McGill University, Canada)
Fabrice Labeau (McGill University, Canada)
Peter Kabal (McGill University, Canada)



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FREQUENCY SAMPLING DESIGN OF ARBITRARY LENGTH FILTERS FOR FILTER BANKS AND DISCRETE SUBBAND MULTITONE TRANSCEIVERS ([Abstract](#))

Fernando Cruz–Roldan (Dep. de Teoría de la Señal y Comunicaciones (UA), Spain)

Manuel Blanco–Velasco (Dep. de Teoría de la Señal y Comunicaciones (UA), Spain)

Angel M. Bravo (Dep. de Teoría de la Señal y Comunicaciones (UA), Spain)

Juan Ignacio Godino–Llorente (Dep. de Ingeniería de Circuitos y Sistemas (UPM), Spain)

Ignacio Santamaria (Departamento de Ingeniería de Comunicaciones, Spain)



EFFICIENT NON–UNIFORM FILTER–BANK EQUALIZER ([Abstract](#))

Heinrich Wilhelm (IND, RWTH Aachen University, Germany)

Löllmann (IND, RWTH Aachen University, Germany)

Peter Vary (IND, RWTH Aachen University, Germany)

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JOINT OVERSAMPLING FDM DEMULTIPLEXING AND PERFECTLY RECONSTRUCTING SBC FILTER BANK FOR TWO CHANNELS ([Abstract](#))

Heinz G. Göckler (Ruhr–Universität Bochum, Germany)

Mohammed N. Abdulazim (Ruhr–Universität Bochum, Germany)



MULTIRATE LINEAR PREDICTION ([Abstract](#))

Charles Therrien (Naval Postgraduate School, United States)



FAST NEURAL NETWORKS FOR PATTERN DETECTION USING 2D–FFT ([Abstract](#))

Hazem Mokhtar El–Bakry (Mansoura University, Egypt)

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THE OPTIMAL DIRECT DESIGN OF BANDPASS WAVE DIGITAL LADDER FILTERS FOR DISTINCTLY SPECIFIED AMPLITUDES IN THE TWO STOPBANDS ([Abstract](#))

Mohamed Yaseen (University of Assiut, Egypt)



EFFICIENT BIT ALLOCATION FOR HIGH QUALITY SUBBAND CODING USING NON-SELECTIVE FILTER BANKS UNDER QUANTIZATION NOISE CONSTRAINTS ([Abstract](#))

Manuel Rosa-Zurera (Universidad de Alcalá, Spain)

Miguel Angel López-Carmona (Universidad de Alcalá, Spain)

Enrique Alexandre-Cortizo (Universidad de Alcalá, Spain)

Roberto Gil-Pita (Universidad de Alcalá, Spain)



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QUATERNIONIC APPROACH TO 8-CHANNEL GENERAL PARAUNITARY FILTER BANK ([Abstract](#))

Marek Parfieniuk (Bialystok Technical University, Poland)

Alexander Petrovsky (Bialystok Technical University, Poland)

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