

Twenty-Sixth Annual
IEEE Communication Theory Workshop
April 27--30, 1997
Tucson, Arizona

Preliminary Program

Sunday, April 27
Registration and Reception

Monday, April 28

AM: Advanced Equalization Techniques
Organizer: Des Taylor

1. K. M. Chugg
PSP: A valuable tool for future digital communication system design
2. G. M. Vitetta (with D. P. Taylor)
Blind detectors for PSK and CPM signals transmitted over frequency-flat fading channels
3. B. Hart (with D. P. Taylor)
An adaptive MLSE receiver for unknown, unsynchronised, time-varying, frequency-selective Ricean channels
4. M. P. Fitz (with S. B. Gelfand)
Soft output equalization for wireless systems
5. S. Pasupathy
EM algorithms and equalization in wireless channels
6. C. N. Georghiadis
Sequence estimation for channels with memory via the EM algorithm
7. E. Ayanoglu (with N. R. Dagdeviren, G. D. Golden, and J. E. Mazo)
Equalizer design for the mu-law modem: A new modem for the digital public switched telephone network

PM: Source Coding
Organizer: Allen Gersho

1. Ahmed Tewfik
Audio coding
2. Michael Orchard
Techniques in video coding
3. Jerry Gibson
Scalability in source coding
4. K. Rose
Embedded source-channel coding for time varying channels
5. Michael W. Marcellin
On least-squares error concealment in packet video

Tuesday, April 29

AM: Concatenated codes with interleavers and iterative decoding
Organizer: Sergio Benedetto

1. Sergio Benedetto
Introduction
2. G. David Forney, Jr.
On iterative decoding algorithms
3. Guido Montorsi
Soft-input soft-output modules to iteratively decode networks

of concatenated codes

4. Dariush Divsalar
Serial and hybrid concatenations of codes with interleavers
5. David J. C. MacKay
Near-Shannon limit performance of low-density parity check codes
6. John S. Sadowsky
A maximum-likelihood decoding algorithm for turbo codes

PM: Advances in the theory of multimedia communications

Organizers: John Daigle and John Silvester

1. John Daigle
Multimedia services in hybrid wireless/wireline environments
2. Kimmo Raatikainen
Supporting information browsing in fixed and mobile networks
3. Jorg Liebeherr
Achieving QoS for multimedia services on the internet
4. Ramesh Rao
Impact of wireless channel impairments on packetized link and transport layer services
5. Gilberto Mayor
New developments in multimedia traffic analysis and management

Wednesday, April 30

AM: High-capacity optical communication systems

Organizer: Alan Willner

1. Alan Willner
High-speed reconfigurable multiple-wavelength systems and networks
2. Larry Bergman
Optical networks in high-performance computing}}\}
3. Daniel Blumenthal
Scalability of WDM all-optical networks
4. Kerry Coffman
Optical network testbeds
5. Rene Cruz
High-speed packet switching
6. Jeffrey Livas
Low noise optical detection
7. Chien-Yu Kuo
Analog optical systems