www.cs.brandeis.edu/~dcc

PROGRAM

Data Compression Conference (DCC 2008)

Sponsored by Brandeis University.
Proceedings published by the IEEE Computer Society Press.

Snowbird, Utah
March 25-27, 2008

COMMITTEE:

James A. Storer, *Brandeis University* **(DCC Chair)**
Michael W. Marcellin, *University of Arizona* **(Committee Chair)**
Henrique Malvar, *Microsoft* **(Submissions Chair)**
Alberto Apostolico, *Georgia Institute of Technology / Universita' di Padova*
Ali Bilgin, *University of Arizona*
Charles D. Creuser, *New Mexico State University*
Hanying Fang, *Brion Technologies*
James E. Fowler, *Mississippi State University*
Vivek Goyal, *MIT*
Robert M. Gray, *Stanford University*
Sheila Hemami, *Cornell University*
Hamid Jafarkhani, *University of California Irvine*
Tamas Linder, *Queen's University*
Stefano Lonardi, *University of California at Riverside*
Gonzalo Navarro, *Universidad de Chile*
Giovanni Motta, *Qualcomm Inc.*
Majid Rabbani, *Eastman Kodak Co.*
Serap Savari, *University of Michigan*
Khalid Sayood, *University of Nebraska*
Dafna Sheinwald, *IBM Haifa Labs*
Marcelo J. Weinberger, *Hewlett-Packard Laboratories*
Tsachy Weissman, *Stanford University*
Ram Zamir, *Tel Aviv University*

SCHEDULE OVERVIEW:

Monday Evening, March 24:
Registration and Reception

Tuesday, March 25:
Morning: Technical Sessions 1, 2, 3
Mid-Day: Invited Presentation
Afternoon: Technical Sessions 4, 5

Wednesday, March 26:
Morning: Technical Sessions 6, 7, 8
Mid-Day: Technical Session 9
Afternoon: Poster Session and Reception

Thursday, March 27:
Morning: Technical Sessions 10, 11, 12

MONDAY EVENING
Registration / Reception, 7:00-10:00pm (Golden Cliff Room)

TUESDAY MORNING

SESSION 1

Break: 9:40am - 10:00am

SESSION 2

Break: 11:00am - 11:20am

SESSION 3

Lunch Break: 12:20pm - 2:30pm

TUESDAY MID-DAY INVITED PRESENTATION
2:30pm - 3:30pm

The Future of Image Compression

William A. Pearlman, Rensselaer Polytechnic Institute

One hears frequently that there is no future for research in image compression. At the turn of the 20th century, some eminent physicists were saying the same for physics research. It was felt that in that discipline, as in image compression, that there was nothing left to be discovered. In this talk, we shall examine the relevance of this hypothesis to image compression. First, there is the question whether current methods are approaching the fundamental limits on efficiency. Secondly, image datasets are increasing in dimension and dramatically in size and their modes of transmission, viewing, and exploitation are evolving to new forms with advances in technology. Different attributes of compression, aside from efficiency, such as low memory utilization and power consumption, small complexity, and scalability will become increasingly important. We shall explore techniques that have the potential to meet future goals while preserving or enhancing efficiency. We shall also speculate on avenues of possible breakthroughs. Hopefully, we shall succeed in illuminating the question of whether there is potentially meaningful research left in the field of image compression.

Break: 3:30 - 4:00pm

TUESDAY AFTERNOON

SESSION 4

Break: 5:40 - 6:00am

SESSION 5

WEDNESDAY MORNING

SESSION 6

Break: 9:40am - 10:00am

SESSION 7

Break: 11:00am - 11:20am

SESSION 8

Lunch Break: 12:20pm - 2:00pm

WEDNESDAY MID-DAY

SESSION 9

Break: 3:40pm - 4:00pm

WEDNESDAY AFTERNOON
POSTER SESSION AND RECEPTION

4:00-7:00pm

In the Golden Cliff Room

(Titles are listed at the end this program;
abstracts of each presentation appear in the proceedings.)

THURSDAY MORNING

SESSION 10

Break: 10:00am - 10:20am

SESSION 11

Break: 11:40am - 12:00noon

SESSION 12

Poster Session

(listed alphabetically by first author)