

MIT/HARVARD/CALTECH MURI VISION MEETING

Tuesday, January 28, 1997

9:00 am - 5:00 pm

American Academy of Arts and Sciences

200 Beacon Street
Cambridge, Massachusetts
(617) 576-5000

- 9:00 am** CONTINENTAL BREAKFAST
- 9:20 am **Rodney Brooks** - Road map
- 9:40 am **Laurent Itti**
Saliency-based Visual Attention and Image Compression
- 10:00 am **Edgar Osuna**
Support Vector Machines and Face Detection
- 10:20 am **Pawan Sinha**
Qualitative Image-based Representations for Object Recognition
- 10:40 am** COFFEE BREAK
- 11:10 am **Pamela Lipson**
Configuration-based Scene Classification and Image Indexing
- 11:30 am **Aparna Lakshmi Ratan**
Training Templates for Image Classification Using Several Examples
- 11:50 am **Michael Oren**
Detecting People
- 12:15 pm** LUNCH
- 2:00 pm **Michael Jones**
Morphable Models: A Framework for Representing and Matching Object Classes
- 2:20 pm **Edward Adelson**
Local and Global Image Structure
- 2:40 pm **Brian Scassellati**
Visuo-motor Coordination for Humanoid Robot
- 3:00 pm **Cynthia Ferrell**
Orientation Behaviour to Visual Stimuli Using Registered Topographic Maps
- 3:20 pm** COFFEE BREAK
- 3:50 pm **Gary Hall**
Pixel Parallel Image Processing System
- 4:10 pm **Woodward Yang**
Reconfigurable Image Correlator Co-processor Chip
- 4:30 pm **Aaron Lipman**
Top-K Learning Co-processor Chip

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Wednesday, January 29, 1997

8:30 am - 2:00 pm

Artificial Intelligence Laboratory

Massachusetts Institute of Technology
575 Technology Square
Cambridge, Massachusetts 02139

8:30 am DEMOS AT AI LAB:

NE43- 8th Floor Playroom

Demos:

- *Mars Rover Demo* Liana Lorigo, James McLurkin and Chandana Paul
- *Sound and Vision Localization* Robert Irie
- *Learning to Reach* Brian Scassellati
- *Two-view Mutual Information Registration* Michael Leventon
- *Fast Mutual Information-based Tracking Using Graphics Hardware* Sandy Wells
- *Segmentation in SAR Imagery* Polina Golland and Paul Viola
- *Example-driven Image Database Querying* Jeremy De Bonet
- *Training Templates for Classification Using Several Examples* Aparna Lakshmi Ratan
- *Image Classification and Indexing Using Flexible Templates* Pamela Lipson

Optional Demo:

- *The Intelligent Room---Video* Rodney Brooks
- *Real-time Face Verification* Raquel Romano and Michael Jones

Center for Biological and Computational Learning

Massachusetts Institute of Technology
45 Carleton Street
Cambridge, Massachusetts 02142

11:00 am DEMOS AT CBCL:

E25-201

Demos:

- *Real-time Face Detection and Face Tracking* Edgar Osuna and Vinay Kumar
- *An Image-based Web Crawler that Looks for Faces* Michael Oren
- *People Detection in Real Images* Constantine Papageorgiou and Michael Oren
- *Saliency-based Visual Attention and Image Compression* Laurent Itti

Optional Demos:

- *A Flexible Model for Faces* Michael Jones
- *Image-based Rendering and Virtual Views Generation Using Algebraic Techniques* Theodoros Evgeniou
- *Analysis and Synthesis of Facial Images Using Image-based Models* Tony Ezzat
- *Generation of Virtual Faces* Constantine Papageorgiou
- *Psychophysical Demonstrations* Pawan Sinha

12:30 pm LUNCH

E25-206