

Image Processing, Computer Vision, Computer Graphics, Adaptive and Fast Algorithms

Monday May 14, 2001

- 10:00 *Fast Algorithms*
- 10:00–11:00 **Timothy Barth** (NASA Ames Research Center)
Fast High Order Accurate Solution Methods for the Eikonal Equation on Curved Triangulated Manifolds
- 11:00–11:30 *Break*
- 11:30–12:00 **Guillermo Sapiro** (University of Minnesota)
Fast computation of distance functions and geodesics on implicit surfaces
- 12:00–12:30 **Richard Tsai** (Princeton University)
Fast sweeping methods for distance and visibility computation on the grids
- 12:30–2:00 *Lunch (on your own)*
- 2:00 *Special Lecture*
- 2:00–3:00 **Mark Sussman** (Florida State University)
The numerical simulation of ship waves using cartesian grid methods

Tuesday May 15, 2001

- 10:00 *Image Processing, Computer Vision, Computer Graphics*
- 10:00–11:00 **Guillermo Sapiro** (University of Minnesota)
Geometrically Based Motions on Curves

Wednesday May 16, 2001

- 10:00 *Image Processing, Computer Vision, Computer Graphics*
- 10:00–11:00 **Guillermo Sapiro** (University of Minnesota)
Geometrically Based Motions on Images
- 11:00–12:00 *Break*

(Wednesday schedule continued on next page)



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- 12:00–2:00 *Lunch (on your own)*
- 2:00 *Fast Algorithms*
- 2:00–3:00 **Stanley Osher** (IPAM)
Fast Algorithms for the Eikonal and Related Equations
- 3:00–4:00 *Break*
- 4:00–5:00 *IPAM Image Processing Seminar*

Thursday May 17, 2001

- 10:00 *Image Processing, Computer Vision, Computer Graphics*
- 10:00–11:00 **Guillermo Sapiro** (University of Minnesota)
Geometrically Based Motions on General Data
- 11:00–11:30 *Break*
- 11:30–12:00 **Seongjai Kim** (University of Kentucky)
 $O(N)$ Optimal Algorithms for The Eikonal Equation

Friday May 18, 2001

- 10:00 *Adaptive Methods*
- 10:00–11:00 *Break*
- 11:30–12:30 **Barna Bihari** (Lawrence Livermore National Laboratory)
Multiresolution Methods for Unsteady Fluid Dynamics on Unstructured Grids

