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CBC, CIPR and CMA Conference on Scale Space and Variational Methods in Computer Vision (SSVM'09) - June 1-5, 2009

This biannual conference series is a merger of the Scale Space conferences and the Variational Level Set Methods conference. The aim is to bring together two different communities with common research interests: the one on scale space analysis and the one on variational, geometric and level set methods and their applications in image interpretation and understanding.

Total number of participants: 101
 Total number of guests outside of CBC: 100
 Number of different nationalities represented: 22
 Total number of talks: 25

Papers accepted for the conference will appear in the conference proceedings that will be published in Springer's Lecture Notes in Computer Science series. The proceedings will be available at the conference. Prospective authors are invited to submit a full-length twelve-page paper electronically via the SSVM'09 Paper Submission Web Page . All papers will undergo a double-blind peer-review procedure. At the conference the papers will be presented as posters or talks.

Detailed Programme

Monday, June 1

17:00–19:00 Registration
 19:00–21:00 Dinner

Tuesday, June 2

08:00–08:30 Registration
 08:30–08:35 Welcome and opening
 08:35–09:00 A Short Introduction to Mathematical Physiology
Bart M. ter Haar Romeny
 09:00–10:00 Dynamics of Ongoing and Evoked Activity in the Awake and Anesthetized Primate
Amiram Grinvald, Invited speaker
 10:05–10:30 Coffee
 10:30–10:55 Composed Segmentation of Tubular Structures by an Anisotropic PDE Model
Elena Franchini, Serena Morigi, Fiorella Sgallari*
 10:55–11:20 PDE-Driven Adaptive Morphology for Matrix Fields
Bernhard Burgeth, Michael Breuß, Luis Pizarro, Joachim Weickert*
 11:20–11:45 Tubular Anisotropy Segmentation
Fethallah Benmansour, Laurent D. Cohen*
 11:45–12:10 Finsler Geometry on Higher Order Tensor Fields and Applications to High Angular Resolution Diffusion Imaging
Laura Astola, Luc Florack*
 12:10–12:35 An Elasticity Approach to Principal Modes of Shape Variation
*Martin Rumpf, Benedikt Wirth**
 12:35–14:00 Lunch
 14:00–14:25 Non-Local Semi-Supervised Segmentation Based on Continuous Mincut
Nawal Houhou, Xavier Bresson, Arthur Szlam, Tony F. Chan, Jean-Philippe Thiran*
 14:25–14:50 Convex Multi-Class Image Labeling by Simplex-Constrained Total Variation
Jan Lellmann, Jörg Kappes, Jing Yuan, Florian Becker, Christoph Schnörr*
 14:50–15:15 Generic Scene Recovery Using Multiple Images
Kuk-Jin Yoon, Emmanuel Prados, Peter Sturm*
 15:15–15:40 A Variational Model for Interactive Shape Prior Segmentation and Real-Time Tracking
Manuel Werlberger, Thomas Pock, Markus Unger, Horst Bischof*
 15:40–16:00 Coffee
 16:00–19:00 Poster Session 1
 19:30–21:00 Dinner

The speaker is indicated by *

Wednesday, June 3

09:00–10:00 A Unified Tight-frame Approach for Missing Data Recovery in Images
Raymond Chan, Invited speaker

10:00–10:30	Coffee
10:30–10:55	Split Bregman Algorithm, Douglas-Rachford Splitting and Frame Shrinkage <i>Simon Setzer</i>
10:55–11:20	A Geometric PDE for Interpolation of M -channel Data <i>Frank Lenzen*, Otmar Scherzer</i>
11:20–11:45	Multi-Scale Vectorial Total Variation with Automated Regularization Parameter Selection for Color Image Restoration <i>Yiqiu Dong*, Michael Hintermueller</i>
11:45–12:40	Lunch
13:00–19:00	Excursion
20:00–22:00	Conference Dinner

Thursday, June 4

09:00–10:00	Total Variation Based Approaches in Image Processing <i>Antonin Chambolle, Invited speaker</i>
10:00–10:30	Coffee
10:30–10:55	Multiplicative Noise Removal Using L_1 Fidelity on Frame Coefficients <i>Sylvain Durand, Jalal Fadili, Mila Nikolova*</i>
10:55–11:20	Bregman-EM-TV Methods with Application to Optical Nanoscopy <i>Christoph Brune*, Alex Sawatzky, Martin Burger</i>
11:20–11:45	An Anisotropic Fourth-Order Partial Differential Equation for Noise Removal <i>Mohammad Reza Hajiaboli</i>
11:45–12:10	Projected Gradient based Color Image Decomposition <i>Vincent Duval*, Jean-François Aujol, Luminita Vese</i>
12:10–12:35	Tracking closed curves with non-linear stochastic filters <i>Christophe Avenel*, Etienne Mémin, Patrick Pérez</i>
12:35–14:00	Lunch
14:00–14:25	Spatio-Featural Scale-Space <i>Michael Felsberg</i>
14:25–14:50	Locally Adaptive Total Variation Regularization <i>Markus Grasmair</i>
14:50–15:15	A Variational Approach for Volume-to-Slice Registration <i>Stefan Heldmann*, Nils Papenberg</i>
15:15–15:40	Scale Spaces on the 3D Euclidean Motion Group for Enhancement of HARDI Data <i>Erik Franken*, Remco Duits</i>
15:40–16:00	Coffee
16:00–19:00	Poster Session 2
19:30–21:00	Dinner

Friday, June 5

Departure

Details of the Poster Sessions

Poster Session 1

- Extraction of the Intercellular Skeleton from 2D Microscope Images of Early Embryogenesis
Paul Bourgine, Peter Frolkovic, Karol Mikula, Nadine Peyrieras, Mariana Remesikova
- Highly Accurate PDE-Based Morphology for General Structuring Elements
Michael Breuß, Joachim Weickert
- Highlight on a Feature Extracted at Fine Scales: The Pointwise Lipschitz Regularity
Christophe Damerval, Sylvain Meignen, Christophe Damerval
- On Semi-implicit Splitting Schemes for the Beltrami Color Flow
Lorina Dascal, Guy Rosman, Xue-Cheng Tai, Ron Kimmel
- The Nonlinear Tensor Diffusion in Biological Structure Segmentation from Image Sequences of Embryogenesis
Olga Drblikova, Karol Mikula, Nadine Peyrieras
- Optimization of Convex Shapes: An Approach to Crystal Shape Identification
Timo Eivola, Toni Lassila
- A Dual Formulation of the TV-Stokes Algorithm for Image Denoising
Christoffer A. Elo, Alexander Malyshev, Talal Rahman
- An Implicit Method for Interpolating Two Digital Closed Curves on Parallel Planes
Nikolaos Gabrielides, Laurent Cohen
- Basic Image Features (BIFs) Arising from Approximate Symmetry Type
Lewis Griffin, Martin Lillholm, Mike Crosier, Justus van Sande
- On the Rate of Structural Change in Scale Spaces
David Gustavsson, Kim Steenstrup Pedersen, Mads Nielsen, Mads Nielsen
- A Combined Segmentation and Registration Framework with a Nonlinear Elasticity Smoother
Carole Le Guyader, Luminita A. Vese
- A Scale-Space Approach to Landmark Constrained Image Registration
Eldad Haber, Stefan Heldmann, Jan Modersitzki
- Nonlocal Variational Image Deblurring Models in the Presence of Gaussian or Impulse Noise
Miyoun Jung, Luminita A. Vese
- Transitions of a Multi-Scale Image Hierarchy Tree
Arjan Kuijper
- Optimization of Divergences Within the Exponential Family for Image Segmentation
Francois Lecellier, Stephanie Jehan-Besson, Jalal Fadili, Gilles Aubert, Marinette Revenu

16. Local Scale Measure for Remote Sensing Images
Bin Luo, Jean-François Aujol, Yann Gousseau
17. Momentum Based Optimization Methods for Level Set Segmentation
Gunmar L  th  n, Thord Andersson, Reiner Lenz, Magnus Borga
18. Geodesically Linked Active Contours: Evolution Strategy Based on Minimal Paths
Julien Mille, Laurent Cohen
19. Fast Dejittering for Digital Video Images
Mila Nikolova
20. A Non-Local Approach to Shape From Ambient Shading
Emmanuel Prados, Nitin Jindal, Stefano Soatto
21. Anisotropic Smoothing Using Double Orientations
Gabriele Steidl, Tanja Teuber
22. Image Denoising Using TV-Stokes Equation with an Orientation-Matching Minimization
Xue-Cheng Tai, Sofia Borok, Jooyoung Hahn
23. Fast Shape from Shading for Phong-Type Surfaces
Oliver Vogel, Michael Breuss, Thomas Leichtweis, Joachim Weickert
24. Theoretical Foundations for Discrete Forward-and-Backward Diffusion Filtering
Martin Welk, Guy Gilboa, Joachim Weickert
25. Lo-norm and Total Variation for Wavelet Inpainting
Andy Yau, Xuecheng Tai, Michael Ng
26. Total-Variation Based Piecewise Affine Regularization
Jing Yuan, Christoph Schnoerr, Gabriele Steidl
27. Hyperbolic Numerics for Variational Approaches to Correspondence Problems
Henning Zimmer, Michael Breuss, Joachim Weickert, Hans-Peter Seidel

Poster Session 2

1. A Nonlinear Probabilistic Curvature Motion filter for Positron Emission Tomography Images
Musa Alrefaya, Hichem Sahli, Iris Vanhamel, Dinh Nho Hao
2. Graph Cut Optimization for the Piecewise Constant Level Set Method Applied to the Multiphase Mumford-Shah Model
Egil Bae, Xue-Cheng Tai
3. A Multiscale Feature Based Optic Flow Method for 3D Cardiac Motion Estimation
Alessandro Becciu, Hans C. van Assen, Luc Florack, Sebastian Kozerke, Vivian Roode, Bart M. ter Haar Romeny
4. From a Single Point to a Surface Patch by Growing Minimal Paths
Fethallah Benmansour, Laurent D. Cohen
5. An Unconstrained Multiphase Thresholding Approach for Image Segmentation
Benjamin Berkels
6. Enhancement of Blurred & Noisy Images Based on an Original Variant of the Total Variation.
Antonin Chambolle, Khalid Jalalzai
7. Computational Geometry-Based Scale-Space and Modal Image Decomposition
Anatole Chessel, Bertrand Cinquin, Sabine Bardin, Jean Salamero, Charles Kervrann
8. On Level-Set Type Methods for Recovering Piecewise Constant Solutions of Ill-Posed Problems
Adriano DeCezaro, Antonio Leitao, Xue-Cheng Tai
9. Contour Enhancement and Completion via Linear Left Invariant Scale Spaces on SE(2)
Remco Duits, Erik Franken
10. Anisotropic Regularization for Inverse Problems with Application to the Wiener Filter with Gaussian and Impulse Noise
Micha Feigin, Nir Sochen
11. Extrapolation of Vector Fields Using the Infinity Laplacian and with Applications to Image Segmentation
Laurence Guillot, Carole Le Guyader
12. A Schr  dinger Equation for the Fast Computation of Approximate Euclidean Distance Functions
Karthik Gurumoorthy, Anand Rangarajan
13. Segmentation and Tracking of Tubular Structures in Biomedical Images
Are Losneg  rd, Erlend Hodneland, Arvid Lundervold
14. Coarse-to-Fine Image Reconstruction Based on Weighted Differential Features and Background Gauge Fields
Bart Janssen, Remco Duits, Luc Florack
15. Edge-Enhanced Image Reconstruction Using (TV) Total Variation and Bregman Refinement
Shantanu Joshi, Antonio Marquina, Stanley Osher, Ivo Dinov, John Darrell Van Horn, Arthur Toga
16. The Convergence of a Central-Difference Discretization of Rudin-Osher-Fatemi Model for Image Denoising
Ming-Jun Lai, Bradley Lucier, Jingyue Wang
17. An Edge-Preserving Multilevel Method for Deblurring, Denoising,
Serena Morigi, Lothar Reichel, Fiorella Sgallari
18. Pose Invariant Shape prior Segmentation Using Continuous Cuts and Gradient Descent on Lie Groups
Niels Chr. Overgaard, Ketut Fundana, Anders Heyden
19. Validation of Watershed Regions by Scale-Space Statistics
Tomoya Sakai, Atsushi Imiya
20. Sparsity Regularization for Radon Measures
Otmar Scherzer, Birgit Walch
21. Adaption of the Eikonal Equation over Weighted Graphs
Vinh-Thong Ta, Aberrahim Elmoataz, Olivier L  zoray
22. Augmented Lagrangian Method, Dual Methods and Split Bregman Iteration for ROF Model
Xue-Cheng Tai, Chunlin Wu
23. Pre-Image as Karcher Mean Using Diffusion Maps: Application to Shape and Image Denoising
Nicolas Thorstensen, Florent Segonne, Renaud Keriven
24. Image Denoising by Harmonic Mean Curvature Flow
Mourad Zerai

Abstracts of Invited Talks

A Unified Tight-frame Approach for Missing Data Recovery in Images

Raymond Chan
The Chinese University of Hong Kong, China

In many practical problems in image processing, the observed data sets are often incomplete in the sense that features of interest in the image are missing partially or corrupted by noise. The recovery of missing data from incomplete data is an essential part of any image processing procedures whether the final image is utilized for visual interpretation or for automatic analysis. In this talk, we present our tight-frame algorithm for missing data recovery. We start with an introduction of tight-frames. Then we illustrate how to apply the idea to different image processing applications such as: inpainting, impulse noise removal, super-resolution image reconstruction, and video enhancement. In particular, we show how PDE ideas, such as anisotropic diffusion, can be incorporated into the tight-frame approach. We end by establishing the close relationship of our algorithm with the analysis and synthesis approaches in wavelet deblurring.

Dynamics of Ongoing and Evoked Activity in the Awake and Anesthetized Primate

A. Grinvald & D. B. Omer

Department of Neurobiology, Weizmann Institute of Science, Rehovot, Israel

Previous studies using voltage sensitive dyes imaging (VSDI) carried out on anesthetized cats reported that spontaneous ongoing cortical activity in the primary visual cortex represents dynamic spatial patterns, many of which resembling the functional architecture of orientation domains, and span large cortical areas (Grinvald et al., 1989; Arieli et al., 1995; Arieli et al., 1996; Tsodyks et al., 1999; Kenet et al., 2003; Ringach D.L., 2003). Whether these results are relevant to the awake behaving primate is unknown. Therefore, we performed VSDI of ongoing cortical activity in the visual cortices of awake simultaneously with measurements of single & multi unit activity and the local-field potential. We found coherent activity also in the awake monkey: a single cell had a tendency to fire when a large population of cells was coherently depolarized as seen in the STAs of the awake monkeys. However, the dynamics was very different from that found in anesthetized cats. To rule out species difference rather anesthetized state we explored the anesthetized monkey and found that the results were similar to the anesthetized cat results. However, in the anesthetized monkey spontaneous cortical activity shows larger repertoire of cortical states; Not surprisingly we found that the two OD maps were also spontaneously represented and to a larger extent than orientation representations. Furthermore, spontaneous cortical states which resemble OD maps tend to switch into their corresponding orthogonal states. We then compared the dynamics found in the anesthetized macaque to that observed in the awake state. The dynamics of ongoing activity in the awake state was significantly different: ongoing activity did not clearly revealed any appearance of the cortical states related to the functional architecture, over a large area. However, more sensitive averaging techniques in space and time revealed cortical states related to orientation and OD maps that are switching rapidly and are spatially mixed. Those results challenge the classical notion which considers spontaneous (ongoing) cortical activity as noise and indeed suggest that ongoing coherent activity play an important role in cortical processing and high cognitive functions. Supported by the Weizmann Institute of Science, Daisy EU grant, the Goldsmith Foundation and Grodetsky Center.

Total Variation Based Approaches in Image Processing

Antonin Chambolle

CMAP - Ecole Polytechnique, France

The Total Variation (TV) has been introduced now almost 20 years ago in image processing, as a useful regularizer for ill-posed inverse problems. It is well-known that it is particularly successful at preserving the edges of the images, and is among the few convex criteria with this feature. I will review a few recent results, first theoretical, about the TV: explicit solutions of the denoising problem in very specific cases, regularity issues, preservation of discontinuities. I will then discuss a few algorithms which seem to perform well for solving the specific, usually convex but singular optimization problems which arise in TV-based variational methods. In particular, for recent applications, duality-based methods seem particularly useful. The last part of my talk will discuss some interesting, recent use of TV-like functionals, for solving quite arbitrary (non convex, but scalar-valued) nonlinear regularization problems in imaging, or partition (multi-labelling) problems.

For more information about the conference, please visit:

www.math.uio.no/conference/ssvm2009/index.html

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