

ESF-Workshop
PDE-Approaches to Image Processing

Saturday, October 7, 2006

14-15.30 Registration

15.30 Herbert Amann (Zurich): *Time-delayed Perona Malik equations*

16.30-17.00 Break

17.00 Karol Mikula (Bratislava): *Finite volume methods in image processing*

18.00 Antonio Buades Capo (Palma): *Relationship between the neighbourhood filters and PDEs*

Sunday, October 8, 2006

10.00 Michal Beneš (Prague): *Geometrical image segmentation by the Allen-Cahn equation*

11.00 Selim Esedoglu (Ann Arbor): *Upper bounds on the coarsening rate of a discrete, ill-posed, nonlinear diffusion equation*

12.00-14.30 Break (Conference Lunch)

15.30 Gerd Dziuk (Freiburg): *Surface finite elements for parabolic equations*

16.30-17.00 Break

17.00 Vicent Caselles (Barcelona): *Total variation based image denoising and restoration*

18.00 Martin Rumpf (Bonn): *Joint methods in morphological image processing*

Monday, October 9, 2006

10.00 Antonin Chambolle (Palaiseau): *Total variation minimization and snakes*

11.00 Charlie Elliott (Brighton): *Numerical solution of PDEs on implicit surfaces*

12.00-13.30 Break

13.30-15.30 Discussion

15.30 Eugene Postnikov (Kursk): *PDE approach to evaluation of the continuous wavelet transform and its applications*

16.30-17.00 Break

17.00 Joachim Weickert (Saarbrücken): *Integrodifferential equations for image denoising*

18.00 Wolfgang Ring (Graz): *Newton level-set techniques for geometric optimization problems in image processing*

Tuesday, October 10, 2006

10.00 Daniel Cremers (Bonn): *Statistical shape information in level set segmentation*

11.00 Robert McCann (Toronto): *Second and fourth order diffusions from delocalized sources: focusing geometry and asymptotics*