

# CSASC 2013

## Joint Mathematical Conference

of the Catalan Mathematical Society, Slovenian Mathematical Society, Austrian Mathematical Society, Slovak Mathematical Society, and Czech Mathematical Society

Koper, Slovenia, 9 – 13 June 2013

# TIMETABLE – MATHEMATICAL METHODS IN IMAGE PROCESSING

### Sunday, June 9th .....

12:00 – 13:45 Registration (UP FAMNIT, Glagoljaška 8)

13:45 – 14:00 Opening remarks  
(Lecture Room: FHS - Tramontana)

14:00 – 15:00 **Plenary talk** X. TOLSA: Singular integrals, rectifiability, and the David-Semmes problem  
(Lecture Room: FHS - Tramontana)

15:00 – 15:30 - - - *Coffee* - - -

### Monday, June 10th .....

08:30 – 09:30 **Plenary talk** J. E. FORNAESS: Convexity in Complex Analysis  
(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -

12:30 – 14:30 - - - *Lunch* - - -

14:30 – 15:30 **Plenary talk** M. NOY: Zero-one laws for minor-closed classes of graphs  
(Lecture Room: FHS - Tramontana)

15:30 – 16:00 - - - *Coffee* - - -

16:00 – 16:30 K. MIKULA: Computational reconstruction of zebrafish early embryogenesis by nonlinear PDE methods of image processing  
(Lecture Room: FAMNIT-VP)

16:30 – 17:00 M. SMÍSEK: A Simple and Robust Cell Detection Algorithm  
(Lecture Room: FAMNIT-VP)

17:00 – 17:30 R. ŠPIR: Tracking of cell nuclei movement and division in time series of 3D images  
(Lecture Room: FAMNIT-VP)

17:30 – 18:00 D. LEITNER: Plant root tracking in 2-dimensional neutron radiographic images  
(Lecture Room: FAMNIT-VP)

20:00 – Welcome Reception (Muzej, Kidričeva ulica 19)

### Tuesday, June 11th .....

08:30 – 09:30 **Plenary talk** I. MIZERA: Borrowing Strength via Shape Constraints and Convex Optimization  
(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -

10:00 – 10:30 C. KIRISITS: Optical Flow on Evolving Surfaces: Mathematical Model  
(Lecture Room: FAMNIT-VP)

10:30 – 11:00 L. LANG: Optical Flow on Evolving Surfaces: Numerical Aspects  
(Lecture Room: FAMNIT-VP)

11:00 – 11:30 G. HARO: Shape from Silhouette Consensus  
(Lecture Room: FAMNIT-VP)

11:30 – 12:00 C. SBERT: A non-local variational approach for P+XS image fusion  
(Lecture Room: FAMNIT-VP)

12:00 – 12:30 Z. KRIVÁ: Adaptive Finite Volume Method For Solving Diffusion Equations On A Consistent Quadtree Grid

(Lecture Room: FAMNIT-VP)

12:30 – 14:00 - - - *Lunch* - - -

15:30 – 16:00 - - - *Coffee* - - -

17:00 – Conference excursion

**Wednesday, June 12th** .....

08:30 – 09:30 **Plenary talk** G. ROTE: Congruence testing of point sets in three and four dimensions

(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -

12:30 – 14:30 - - - *Lunch* - - -

14:30 – 15:30 **Plenary talk** G. TESCHL: Peakon asymptotics for the dispersionless Camassa-Holm equation

(Lecture Room: FHS - Tramontana)

15:30 – 16:00 - - - *Coffee* - - -

20:00 – Conference Dinner (Skipper)

**Thursday, June 13th** .....

08:30 – 09:30 **Plenary talk** P. MORAVEC: Bogomolov multipliers of groups

(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -