

10 Sept. - Wednesday

8.30	Registration
8.45	Welcome speech
9.00	Invited lecture Prof. P. Gritzmann (IAPR talk) <i>On discrete Inverse problems: theory, algorithms and applications</i>
10.00	Discrete Tomography Imants Svalbe, Andrew Kingston, Nicolas Normand and Henri Der Sarkissian <i>Back-projection filtration inversion of discrete projections</i> Paolo Dulio, Sara Brunetti and Carla Peri <i>Non-additive bounded sets of uniqueness in Z^n</i>
11.00	Coffee break
11.30	Geometric Transforms David Coeurjolly <i>Generic Separable Algorithms for Distance Transformation: A Subquadratic Approach for Chamfer Norms</i> Elisabeth Linnér and Robin Strand <i>Anti-Aliased Euclidean Distance Transform on 3D Sampling Lattices</i> Yukiko Kenmochi, Nicolas Passat, Phuc Ngo and Hugues Talbot <i>Efficient neighbourhood computing for discrete rigid transformation graph search</i>
13.00	Lunch
14.30	Fast Track (5 minutes presentation of each poster) Gilles Bertrand <i>Completions and simple homotopy</i> Zezhong Xu, Bok-Suk Shin and Reinhard Klette <i>Determination of Length and Width of a Line-segment by using a Hough Transform</i> Simone Rinaldi, Andrea Frosini, Daniela Battaglino, Samanta Socci and Veronica Guerrini <i>Polyominoes with excluded submatrices</i> Barbara Di Fabio and Claudia Landi <i>Stable shape comparison of surfaces via Reeb graphs</i> Loïc Mazo and Etienne Baudrier <i>About multigrid convergence of some length estimators</i> Robin Strand Filip Malmberg Elisabeth Linnér and Punam Saha <i>The Minimum Barrier Distance -- Stability to seed point position</i> Lilian Aveneau, Laurent Fuchs, Eric Andres and Gaelle Largeteau-Skapin <i>Digital Geometry from a Geometric Algebra perspective</i> Andrew Kingston, Heyang Li, Nicolas Normand and Imants Svalbe <i>Fourier Inversion of the Mojette transform</i>

Silvia Pagani, Paolo Dulio and Andrea Frosini <i>Uniqueness regions under sets of random projections in discrete tomography</i>
Ranita Biswas and Partha Bhowmick <i>Finding Discrete Spherical Geodesic Paths and Circles in Z^3—Graph Theory Meets Number Theory</i>
Sergii Poltaretskyi, Jean Chaoui and Chafiaa Hamitouche-Djabou <i>Discrete Curve Evolution of Vertex Sets Lying on Arbitrary Triangulated 3D Mesh and its application on skeleton pruning</i>
Tristan van Leeuwen and K. Joost Batenburg <i>Adaptive Grid Refinement for Discrete Tomography</i>

15.30	Poster session
	Demo session
16.00	Coffee break
17.00	TC 18 Meeting
18.00	Social event
19.30	Welcome cocktail

11 Sept. - Thursday

8.30	Registration
9.00	Invited lecture Prof. L. Robbiano (IAPR Talk) <i>Algebraic Schemes and Images</i>
10.00	Morphological Analysis Filip Malmberg, Bettina Selig and Cris L. Luengo Hendriks <i>Exact Evaluation of Stochastic Watersheds: From Trees to General Graphs</i> Nicolas Boutry, Thierry Géraud and Laurent Najman <i>Making nD images well-composed by subdivision</i>
11.00	Coffee break
11.30	Discrete Shape Representation, Recognition and Analysis Tristan Roussillon <i>An Arithmetical Characterization of the Convex Hull of Digital Straight Segments</i> Jérémy Levallois, David Coeurjolly and Jacques-Olivier Lachaud <i>Parameter-free Multigrid Convergent Digital Curvature Estimators</i> Thierry Monteil <i>Freeman digitization and tangent word based estimators</i>
13.00	Lunch
14.30	Discrete Modelling and Visualization Jean-Luc Toutant, Eric Andres, Gaelle Largeteau-Skapin and Rita Zrour <i>General Implicit Digital surfaces</i> Isabelle Sivignon <i>Algorithms for Fast Digital Straight Segments Union</i>
15.30	Discrete Tomography Stefano Bilotta and Stefano Brocchi <i>Discrete Tomography Reconstruction Algorithms for Images with a Blocking Component</i> Andreea Denitui, Stefania Petra, Claudius Schnörr and Christoph Schnörr <i>An Entropic Perturbation Approach to TV-Minimization for Limited-Data Tomography</i>
16.30	Coffee-Break
17.00	Social event
18.30	Gala dinner IAPR - Best paper award

12 Sept. - Friday

8.30	Registration
9.00	Invited lecture Prof. M. Gori (IAPR talk) <i>Learning to see like babies</i>
10.00	Discrete and Combinatorial Tools for Image Segmentation and Analysis Nilanjana Karmakar, Arindam Biswas and Partha Bhowmick <i>Segmentation of 3D Object Articulations by Slice-based Vertex-weighted Reeb Graph</i> Esbelin Henri-Alex and Malgouyres Rémy <i>Taylor optimal kernel for derivative estimation</i>
11.00	Coffee break
11.30	Models for Discrete Geometry Yan Gerard and Antoine Vacavant <i>About the Maximum Cardinality of the Digital Cover of a Curve with a Given Length</i> Eric Domenjoud, Xavier Provençal and Laurent Vuillon <i>Facet Connectedness of Discrete Hyperplanes with zero intercept: the General Case</i>
12.30	Discrete and Combinatorial Topology Guillaume Damiand, Tristan Roussillon and Christine Solnon <i>2D topological maps isomorphism for multi-label simple transformation definition</i>
13.00	Lunch
14.30	Michel Couprie and Gilles Bertrand <i>Isthmus-based Parallel and Asymmetric 3D Thinning Algorithms</i>
15.00	Discrete Shape Representation, Recognition and Analysis Srecko Brlek, Hugo Tremblay, Jérôme Tremblay and Romaine Weber <i>Efficient computation of the outer hull of a discrete path</i> Jacques-Olivier Lachaud, Boris Thibert and Louis Cuel <i>Voronoi-based geometry estimator for 3D digital surfaces</i>
16.00	Farewell speech