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Nota di contenuto	""Contents""; ""Preface""; ""List of Participants""; ""Regularization of nonlinear unstable operator equations by secant methods with application to gravitational sounding problem""; ""A fractal set constructed from a class of wavelet sets""; ""Joint invariant signatures for curve recognition""; ""Inpainting based on nonlinear transport and diffusion""; ""Towards fast non-rigid registration""; ""A note on wavelet-based inversion algorithms""; ""A comparison between the Wavelet-Galerkin and the Sinc-Galerkin methods in solving nonhomogeneous heat equations""; ""Fast diffusion registration"" ""Iterative stabilization and edge detection""""Backprojections in tomography, spherical functions and addition formulas: a few challenges""; ""Mathematical models for 2D positron emission tomography""; ""Explicit versus implicit relative error regularization on the space of functions of bounded variation""; ""Sampling methods for approximate solution of pde""; ""Diffusion and regularization of vector- and matrix-valued images""; ""A numerically robust hybrid steepest descent method for the convexly constrained generalized inverse

problems"
