Nonlinear Computational Geometry

Foreword.- Preface.- Spectral techniques to explore point clouds in Euclidean space, with applications to collective coordinates in structural biology.- Rational parametrizations, intersection theory, and Newton polytopes.- Some discrete properties of the space of line transversals to disjoint balls.- Algebraic geometry and kinematics.- Rational offset surfaces and their modeling applications.- A list of challenges for real algebraic plane curve visualization software.- A subdivision method for arrangement computation of semi-algebraic curves.- Invariant-based characterization of the relative position of two projective conics.- A note on planar hexagonal meshes.- List of workshop participants. EAN/ISBN : 9781441909992 Publisher(s): Springer, Berlin, Springer, New York Format: ePub/PDF Author(s): Emiris, Ioannis Z. - Sottile, Frank J. - Theobald, Thorsten

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