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Autore	TAMAROWSKI, Claudia
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Pubbl/distr/stampa	Milano : Egea, copyr. 2001
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2. Record Nr.	UNINA9910299785903321
Titolo	New Challenges in Grid Generation and Adaptivity for Scientific Computing / / edited by Simona Perotto, Luca Formaggia
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Soggetti	Numerical analysis Mathematical models Information visualization Engineering mathematics Engineering - Data processing Computer-aided engineering Computer simulation Numerical Analysis Mathematical Modeling and Industrial Mathematics Data and Information Visualization Mathematical and Computational Engineering Applications Computer-Aided Engineering (CAD, CAE) and Design Computer Modelling
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di contenuto	1 Implicit boundary and adaptive anisotropic meshing: T. Coupez, L. Silva and E. Hachem -- 2 A curvature-adapted anisotropic surface re-meshing method: F. Dassi and H. Si -- 3 The benefits of anisotropic

mesh adaptation for brittle fractures under plane-strain conditions: M. Artina, M. Fornasier, S. Micheletti and S. Perotto -- 4 Deforming surface meshes: S.-W. Cheng and J. Jin -- 5 An optimization based method for the construction of 2D parameterizations for isogeometric analysis with T-splines: J.I. Lòpez, M. Brovka, J.M. Escobar, J.M. Cascòn and R. Montenegro -- 6 Thread-parallel anisotropic mesh adaptation: G.J. Gorman, G. Rokos, J. Southern and P.H.J. Kelly -- 7 Immersed NURBS for CFD applications: J. Veysset, G. Jannoun, T. Coupez and E. Hachem -- 8 Strategies for generating well centered tetrahedral meshes on industrial geometries: S. Walton, O. Hassan and K. Morgan -- 9 Enhanced viscous mesh generation with metric-based blending: D. Marcum and F. Alauzet -- 10 On the generation of curvilinear meshes through subdivision of isoparametric elements: D. Moxey, M. Hazan, S. J. Sherwin and J. Peirò -- 11 Anisotropic, adaptive finite elements for a thin 3D plate: M. Picasso and A. Loseille -- 12 Anisotropic mesh and time step adaptivity for solute transport modeling in porous media: B. Esfandiar, G. Porta, S. Perotto and A. Guadagnini -- 13 A 2D topology-adaptive mesh deformation framework for mesh warping: J. Kim, D. McLaurin and S.M. Shontz -- 14 On shape deformation techniques for simulation-based design optimization: D. Sieger, S. Menzel and M. Botsch -- 15 Creating free-surface flow grids with automatic grid refinement: J. Wackers, G. Deng, E. Guilmineau, A. Leroyer, P. Queutey and M. Visonneau.

Sommario/riassunto

This volume collects selected contributions from the “Fourth Tetrahedron Workshop on Grid Generation for Numerical Computations”, which was held in Verbania, Italy in July 2013. The previous editions of this Workshop were hosted by the Weierstrass Institute in Berlin (2005), by INRIA Rocquencourt in Paris (2007), and by Swansea University (2010). This book covers different, though related, aspects of the field: the generation of quality grids for complex three-dimensional geometries; parallel mesh generation algorithms; mesh adaptation, including both theoretical and implementation aspects; grid generation and adaptation on surfaces – all with an interesting mix of numerical analysis, computer science and strongly application-oriented problems.
