

LIST of PUBLICATIONS of CARLA MANNI

2018

- [111–2018] T. Lyche, **C. Manni**, H. Speleers: *Foundations of Spline Theory: B-Splines, Spline Approximation, and Hierarchical Refinement*, in T. Lyche, C. Manni, H. Speleers (eds.): *Splines and PDEs: from Approximation Theory to Numerical Linear Algebra*, Springer, Lecture Notes in Mathematics 2219, (2018)
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- [110–2018] T. Lyche, **C. Manni**, H. Speleers (eds.): *Splines and PDEs: from Approximation Theory to Numerical Linear Algebra* Springer, Lecture Notes in Mathematics, 2219, (2018)
- [109–2018] X. Wei, Y. Zhang, D. Toshniwal, H. Speleers, X. Li, **C. Manni**, J. A. Evans, T. Hughes *Blended B-Spline Construction on Unstructured Quadrilateral and Hexahedral Meshes with Optimal Convergence Rates in Isogeometric Analysis*, *Computer Methods in Applied Mechanics and Engineering*, 341 (2018) 609–639
DOI 10.1016/j.cma.2018.07.013
- [108–2018] S.-E. Ekström, I. Furci, C. Garoni, **C. Manni**, S. Serra-Capizzano, H. Speleers *Are the eigenvalues of the B-spline isogeometric analysis approximation of $-\Delta u = \lambda u$ known in almost closed form?*
Numerical Linear Algebra with Applications, 25 (2018)
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- [107–2017] **C. Manni**, F. Roman, H. Speleers: *Generalized B-splines in Isogeometric Analysis*, in: G.E. Fasshauer and L.L. Schumaker (eds.), *Approximation Theory XV: San Antonio 2016*, Springer Proceedings in Mathematics & Statistics 201, (2017) 239–267.
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DOI:10.1137/140988590
- [104–2017] C. Garoni, **C. Manni**, S. Serra-Capizzano, D. Sesana, H. Speleers: *Spectral analysis and spectral symbol of matrices in isogeometric Galerkin methods*, *Mathematics of Computation*, 86 (2017) 1343–1373
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- [103–2017] F. Pelosi, C. Giannelli, **C. Manni**, M. L. Sampoli, H. Speleers *Splines over regular triangulations in numerical simulations*, *CAD*, 82 (2017) 100–111
DOI: 10.1016/j.cad.2016.08.002
- [102–2017] C. Garoni, **C. Manni**, S. Serra-Capizzano, D. Sesana, H. Speleers: *Lusin theorem, GLT sequences and matrix computations: an application to the spectral analysis of PDE discretization matrices*, *Journal of Mathematical Analysis and Applications*, 446 (2017) 365–382
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- [101–2017] F. Roman, **C. Manni**, H. Speleers: *Spectral analysis of matrices in Galerkin methods based on generalized B-splines with high smoothness*, *Numerische Mathematik*, 135 (2017) 169–216
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