International Conferences: Selected Invited Talks

- C. MANNI: *Maximally Smooth Splines on Triangulations* **Conference on Geometry: Theory and Applications (CGTA 2023)**, Kefermarkt, Upper Austria 19–23/06/2023, <u>plenary speaker</u>

- C. MANNI: *Tchebycheffian Splines and Isogeometric Methods* **International Conference on Approximation Theory and Beyond**, Vanderbilt University, Nashville, 15–18/5/2023, USA, <u>plenary speaker</u>

- C. MANNI: *Spline error estimates and outlier-free isogeometric discretizations* **International Conference on Multivariate Approximation**, Schloss Rauischholzhausen, 13–17/3/2023, Germany, <u>keynote speaker</u>

- C. MANNI:*Splines of maximal smoothness on refined triangulations: simplex spline bases* **MAIA 2022**,Fuldatal, 26–30/09/2022, Germany

- C. MANNI:*From spline error estimates to outlier-free isogeometric discretizations* **SMART 2022**, Rimini, 20–24/09/2022, Italy

- C. MANNI:*Outlier-free isogeometric discretizations* **Geometric Modeling: Interoperability and New Challenges**, Schloss Dagstuhl - Leibniz Center for Informatics, 21–26/11/2021, Germany

- C. MANNI:*Tchebycheffian B-splines in Isogeometric Analysis from geometric modelling to numerical simulation* **Workshop on Multivariate Approximation and Geometric Modelling** on line event, 30/11/2021-1/12/2021.

- C. MANNI:C^2 *Cubic Splines on Triangulations* **GIORNATA DI LAVORO Progetto GNCS 2019 Metodi di approssimazione locale con applicazioni all'analisi isogeometrica e alle equazioni integrali di contorno** Firenze, Italia, 28–29/11/2019.

- C. MANNI:C^2 *Cubic Splines on Refined Triangulations* **SAT2019: International Conference on New Trends in Splines, Subdivision and Approximation Theory** Rennes, Francia, 21–22/11/2019.

- C. MANNI:*Construction of C^2 Cubic Splines on Refined Triangulations* **IGA 2019** Munich, Germany, 18–20/09/2019. MS: Unstructured Spline Technologies <u>keynote speaker</u>

- C. MANNI:*Isogeometric analysis for 2D and 3D curl-div problems: Spectral symbols and fast iterative solvers* **Structure preserving Discretizations: FEMS, Splines, and IGA** Pittsburgh, USA, 31/05–1/06/2019.

- C. MANNI:*Sharp error estimates for spline approximation* **Isogeometric Splines: Theory and Applications** BIRS Banff, Canada, 24/02–1/03, 2019

- C. MANNI:*Tchebycheffian splines over planar T-meshes* **International Workshop on Numerical Mathematics and its Applications** Torino, Italia, 19–21/9, 2018

- C. MANNI:*Efficient quasi-interpolation in hierarchical spline spaces* **SIMAI 2018** Roma, Italia, 2–6/7, 2018 MS: Recent Advances in Quasi-Interpolation and Applications

- C. MANNI:*Spectral analysis of matrices from NURBS isogeometric methods* **ECCM6-ECFD7**, Glasgow, UK 11–15/6, 2018 MS: Mathematical Aspects of Isogeometric Analysis

- C. MANNI: *Tchebycheffian spline spaces over T-meshes* **IGA 2017**, Pavia, Italia 11–13/9, 2017 MS: Isogeometric spaces over unstructured meshes

- C. MANNI: *Shape control in PH curve design* **SIAM GD17**, Pittsburgh, Pennsylvania, USA 10–12/7, 2017 <u>plenary speaker</u>

- C. MANNI: *From geometric modeling to numerical simulation*, **Giornata INdAM 2017**, Messina 7/6/2017

- C. MANNI: *Spectral analysis of matrices from NURBS isogeometric methods*, **Geometric Modelling, Interoperability and New Challenges**, Dagstuhl (Germania) 28/5–2/6, 2017

- C. MANNI: *Using Generalized B-splines in Isogeometric Analysis* <u>plenary speaker</u> **Workshop SIGMA'2016 (Signal-Image-Geometry-Modelling-Approximation)**, Luminy, France October 31 November 4, 2016.

- C. MANNI: *Spline spaces over planar T-meshes and Extended complete Tchebycheff spaces* **Multivariate Approximation and Interpolation with Applications**, Luminy, France September 1823, 2016.

- C. MANNI: *Spectral analysis of matrices arising in GB-spline isogeometric methods* **MAFELAP 2016**, Brunel University London, June 14-17, 2016 MS: Recent Developments in Isogeometric Analysis

- C. MANNI: *Generalized B-splines in Isogeometric Analysis* <u>plenary speaker</u> **15th International Conference Approximation Theory**, San Antonio, USA May 22-25, 2016

- C. MANNI: *Using Generalized B-splines in Isogeometric Analysis* **Mini-Workshop: Mathematical Foundations of Isogeometric Analysis**, Oberwolfach, Germany, February 7-13 2016

- C. MANNI: *Splines on Regular Triangulations and Isogeometric Analysis* **SIAM GD/SPM15 2015**, Salt Lake City, 12-14 October, 2015 MS: Representation and Isogeometric Analysis

- C. MANNI: *Isogeometric Methods based on Generalized B-splines* <u>plenary speaker</u> **VI Jaen Conference on Approximation Theory**, Ubeda, Spain June 28th-July 3rd, 2015

- C. MANNI: *Almost polynomial splines over planar T-meshes* **Multivariate Splines and Algebraic Geometry**, Oberwolfach, Germany, April 19–25, 2015

- C. MANNI: *Generalized B-splines and local refinements* <u>keynote talk</u> **Multivariate Approximation and Interpolation with Applications** Erice, Sicily, Italy, September 25–30, 2013.

- C. MANNI: *PS B-splines: from geometric modeling to simulation* <u>keynote talk</u> **SAT 2013: International conference on New Trends in Splines and Approximation Theory** Rennes, Francia, June 19–21, 2013.

- C. MANNI: *Local refinements in IgA based on hierarchical generalized B-splines* **MAFE-LAP, MS: Foundations of isogeometric analysis** London, UK, June 11–14, 2013.

- C. MANNI: *Hierarchical Structures Based on Generalized B-Splines in IgA* keynote talk **Numerical Modelling in Environment and Natural Resources (M.A.M.E.R.N.'07)** Granada, Spain, April 22–25, 2013.

- C. MANNI: *Converting NURBS to NURPS geometries* **ECCOMAS12, MS129: Isogeometric Analysis** 10–14/9/2012 Vienna (Austria).

- C. MANNI: *Bernstein-like representations and Isogeometric Analysis* keynote talk, **Eighth International Conference on Mathematical Methods for Curves and Surfaces** 28/6–3/7/2012 Oslo (Norvegia).

- C. MANNI: *Non standard discretization techniques in Isogeometric Analysis* keynote talk, **International Conference on Multivariate Approximation** 24–27/9/2011 Hagen (Germania).

- C. MANNI: *Generalized B-splines: from Geometry to Analysis* plenary, **Conference on Geometry - Theory and Applications** 20–24/6/2011 Vorau (Austria).

- C. MANNI: *Generalized B-splines in isogeometric analysis* plenary, **Applied Mathematics and Scientific Computing** 13–17/6/2011 Trogir (Croazia).

- C. MANNI: *CAGD Tools in Isogeometric Analysis* plenary **Multivariate Approximation and Interpolation with Applications** 6–10/9/2010 Edinburgh, U.K.

- C. MANNI: *Beyond NURBS: Non-Standard CAGD Tools in Isogeometric Analysis* plenary, **Non-Standard Numerical Methods for PDE's** 29/6–2/7/2010 Pavia, Italy

- C. MANNI: *Optimal bases for C^1 Hermite Subdivision Schemes* plenary, **Nouvelles Tendences en Approximation** 27 - 28/10/2009, Oujda (Morocco).

- C. MANNI: *Corner Cutting, optimal bases and Hermite subdivision schemes* plenary, **Applied Mathematics and Scientific Computing** 14–18/9/2009 Zadar (Croazia).

- C. MANNI, *Generalized B-splines as a tool in Isogeometric Analysis* **10th US National Conference on Computational Mechanics**, 16–19/07/2009, Columbus Ohio, USA, minisimposium on *Synergies in Computational Mechanics and Geometry: A Symposium in Honor of Professor Thomas J.R. Hughes*

- C. MANNI, *Generalized B-splines: a possible tool in Isogeometric Analysis* plenary, **Advanced Workshop on Trends and Developments in Linear Algebra** , 6–10/07/2009, ICTP Trieste.

- C. MANNI, *A short review of CAGD tools for Isogeometric Analysis* **SIMAI 2008**, 15–19/09/2008, Roma, minisimposium on **IsoGeometric Analysis: a New Paradigm for the Discretization of PDEs.**

- C. MANNI, *Two points Hermite subdivision: Analysis of the convergence domain* plenary, **International Conference on Approximation Methods and Numerical Modelling in Environment and Natural Resources (M.A.M.E.R.N.'07)** Granada, Spain, July 11-13, 2007.

- C. MANNI, *Shape Preserving Regions for Hermite Subdivision* **Approximation Theory**, 4–8/3/2007, San Antonio (USA), minisimposium on *Hermite Subdivision*

- C. MANNI, *Parametric Techniques and Nonlinear Hermite Subdivision* <u>plenary</u>, **Radial Basis Functions and Beyond: from Meshless Methods to Kernel Learning**, 25–26/11/2005, Goëttingen (Germania).

- C. MANNI, *Quasi-Interpolation in Constrained Approximation of Curves and Surfaces*, **Algorithms for Approximation V**, 18–22/07/2005, Chester (U.K.), <u>plenary</u>.

- C. MANNI, *Subdivision Properties of Parametric Tension Schemes* **Foundations of Computational Mathematics** , Workshop on **Geometric Modelling and Animation** 30/6–9/7/2005, Santander (Spagna).

- C. MANNI, *Parametric Powell-Sabin Quasi-interpolants* <u>plenary</u>, **Geometric Modeling** 29/5–3/06/2005, Dagstuhl (Germania).

- C. MANNI, *Uniformly Bounded Discrete Quadratic Spline Quasi-interpolants on Powell-Sabin Partitions* <u>plenary</u>, **MAIA 2004: Multivariate Approximation and Interpolation with Applications** 13-17/10/2004, Hohenheim (Germania).

- C. MANNI *Shape-preserving techniques for approximation of curves*, **Third China-Italy Joint Conference on Computional and Applied Mathematics** 17-19/11/2003, Grado (Italia).

- C. MANNI, *Quasi-interpolants on Powell-Sabin Partitions* **International conference WAVELETS AND SPLINES** 3-8/7/2003, St. Petersburg (Russia).

- C. MANNI *Constructing curves via shape-preserving techniques* **Applied Mathematics and Applications of Mathematics**, 10-13/2/03, Nizza, (Francia).

- C. MANNI *Quasi-interpolants with tension properties from and in CAGD*, **Geometric Modeling** 12–17/5/2002, Dagstuhl (Germania).

- C. MANNI *Tensioned quasi-interpolation via geometric continuity,* <u>plenary</u>, **MAIA 2001: Conference on Multivariate Approximation and Interpolation with Applications in CAGD** 10–14/9/2001, Almunecar (Spagna).

- C. MANNI: *Local Tension Methods for Bivariate Scattered Data Interpolation,* <u>plenary</u>, **Mathematical Methods for Curves and Surfaces** 29/6–4/7/2000 Oslo (Norvegia).

- C. MANNI:*Constrained functional approximation via parametric cubics*, **Modelisation Geometrique et Approximation**, Luminy, France 2-5/5/2000.

- C. MANNI:*A general parametric framework for functional tension schemes*, **Multivariate Approximation and Interpolation with Applications in CAGD, Signal and Image processing**, Eilat, (Israele), 7–11/9/1998.

- C. MANNI: *Difference method for constructing tension splines*, **Numerische Methoden der Approximationstheorie**, Oberwolfach, Germania, 11–17/5/1997.

- C. MANNI: *On discrete tension splines*, **Modèlisation et approximation des courbes te surfaces**, Luminy, France 1–4/4/1997 .

- C. MANNI: *A local scheme for comonotone interpolation over contours*, **International Workshop on Multivariate Approximation: from CAGD to Wavelets**, Santiago, Chile, 24–30/9/1992.