

# CURRICULUM VITAE

of

## Luigi Brugnano

Full Professor of Numerical Analysis

Dipartimento di Matematica e Informatica “U. Dini”

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<https://people.dimai.unifi.it/brugnano/>

(updated **23 August 2024**)

**Status:** married, two sons.

**Interests:** archery, classic guitar.

### VITA AND ACADEMIC ACTIVITY

- 1962: Born in Brindisi (Italy), on December 16, 1962.
- 1981: School leaving examination, passed with mark 60/60, at the Liceo Scientifico “E.Fermi”, Brindisi (Italy).
- 1985: Degree “magna cum laude” in Computing Sciences, University of Bari (Italy).
- 1986-87: Military service, as reserve officer, in the Italian Navy.
- 1988-1990: CNR research grants spent at the “Istituto per Ricerche in Matematica Applicata del CNR”, Bari (Italy).
- 1990-1992: assistant professor of Numerical Analysis, University of Bari (Italy).
- 1992-2001: associate professor of Numerical Analysis, University of Firenze (Italy).
- Since 2001: full professor of Numerical Analysis, University of Firenze (Italy).
- Since 1996 based at the Department of Mathematics and Informatics “U.Dini” of the University of Firenze (Italy).
- 1997-2018: member of the academic board of the PHD in Mathematics, University of Firenze (Italy).
- 1999-2012: member of the academic board of the PHD in Informatics and Applications, University of Firenze (Italy).
- September 2012: awarded with the “Honorary Fellowship” of the European Academy of the European Society of Computational Methods in Sciences, Engineering and Technology, during the International Conference “ICNAAM 2012 - 10th International Conference of Numerical Analysis and Applied Mathematics” (Kos, Greece, September 19–25, 2012).
- June 2016: *Outstanding Achievement Award*, awarded during the 2<sup>nd</sup> International Conference NUMTA 2016 – Numerical Computations: Theory and Algorithms – (Pizzo Calabro, Italy, June 19–25, 2016).
- November 2012–October 2016: Chairman of the Mathematics Courses at the University of Firenze (Italy).
- Member of several committees for professorship appointment, at any level.

### COURSES

Numerical Analysis; Numerical Calculus; Numerical Linear Algebra; Numerical Methods for Differential Equations; Numerical Optimization; Operating Research.

## RESEARCH INTERESTS

Numerical linear algebra; Parallel computing; Computational fluid-dynamics; Iterative methods for systems of equations; Numerical methods for ODEs and DAEs; Numerical methods for SODEs; Numerical methods for polynomial roots; Mathematical modelling; Mathematical software; Geometric integration.

## EDITOR OF THE FOLLOWING JOURNALS

- Journal of Computational and Applied Mathematics (Principal Editor since 2020);
- Journal of Computational Mathematics and Data Science (2021–);
- Applied Mathematics and Computation (2010–);
- Applied Numerical Mathematics (2013–);
- Axioms (2018–2022);
- International Journal of Modeling, Simulation, and Scientific Computing (2020–);
- Journal of Numerical Analysis, Industrial and Applied Mathematics (2009–);
- Mathematics in Engineering, Science and Aerospace (2011–);
- Nonlinear Studies (2011–);
- Scalable Computing: Practice and Experience (1998–2021);
- Reviewer for the Mathematical Reviews;
- Reviewer for the zbMATH.

## REVIEWER FOR THE FOLLOWING JOURNALS

Advances in Computational Mathematics; Annali di Matematica Pura ed Applicata; Applied Mathematics and Computation; Applied Mathematics & Information Sciences; Applied Mathematics Letters; Applied Mathematical Modelling; Applied Numerical Mathematics; BIT Numerical Mathematics; Bulletin of the Malaysian Mathematical Sciences Society; Calcolo; Chinese Physical Letters; Chinese Physics B; Communications in Computational Physics; Communications in Mathematical and in Computer Chemistry; Communications in Nonlinear Science and Numerical Simulation; Computer Mathematics with Applications; Computer Methods in Applied Mechanics and Engineering; Computer Physics Communications; Discrete Dynamics in Nature and Society; European Transaction on Numerical Analysis; Far East Journal of Applied Mathematics; IEEE Transactions on Computers; Informatica; International Journal of Applied and Computational Mathematics; International Journal on Computer Mathematics; Journal of Applied Analysis and Computation; Journal of Applied Mathematics and Computing; Journal of Computational and Applied Mathematics; Journal of Computational Mathematics; Journal of Computational Methods in Sciences and Engineering; Journal of Computational Physics; Journal of Computational Sciences; Journal of Difference Equations and Applications; Journal of Guidance, Control and Dynamics; Journal of Scientific Computing; Le Matematiche; Linear Algebra and its Applications; Linear and Multilinear Algebra; Mathematical Methods in the Applied Sciences; Mathematical Modelling and Analysis; Mathematical Reviews; Mathematics and Computers in Simulation; Mathematics of Computation; Mediterranean Journal of Mathematics; Neural Computation; Nonlinear Analysis; Nonlinear Dynamics; Nonlinear Studies; Numerical Algorithms; Numerical Linear Algebra with Applications; Numerical Mathematics: Theory, Methods and Applications; Numerical Methods for Partial Differential Equations; Numerische Mathematik; Parallel and Distributed Computing Practices; Rivista di Matematica dell'Università di

Parma; Science Asia; SIAM Journal on Numerical Analysis; SIAM Journal on Scientific Computing; Simulation Modelling Practice and Theory; Taiwanese Journal of Mathematics; The European Physical Journal Plus; The Open Applied Mathematical Journal; Theoretical Computer Science; World Journal of Modelling and Simulation.

## SCIENTIFIC PRODUCTION

Over hundred fifty scientific publications (see list below), including the following monographs:

### Research Monographs:

1. L. Brugnano, D. Trigiante. *Solving Differential Problems by Multistep Initial and Boundary Value Methods*. Gordon and Breach Science Publ., Amsterdam, 1998 (418+xv pp.). ISBN 90-5699-107-8 (cited 318 times in Scopus)
2. L. Brugnano, F. Iavernaro. *Line Integral Methods for Conservative Problems*. Chapman and Hall/CRC, Boca Raton (FL, USA), 2016 (222+xvi pp.). Series: *Monographs and Research Notes in Mathematics*. ISBN 978-1-4822-6384-8
3. L. Brugnano, F. Iavernaro (Eds.). *Advanced Numerical Methods in Applied Sciences*. MDPI, Basel, 2019, (297+viii pp.). ISBN 978-3-03897-667-7

### Educational Monographs:

1. L. Brugnano, C. Magherini. *Metodi Iterativi per Sistemi Lineari*. Pitagora Editrice, Bologna 2003 (140+viii pp.). ISBN 88-371-1367-6 <https://arxiv.org/abs/2111.11440>
2. L. Brugnano, C. Magherini, A. Sestini. *Calcolo Numerico*. Master, Università & Professioni, Firenze 2005 (138+x pp.).
3. L. Brugnano, C. Magherini, A. Sestini. *Calcolo Numerico, Seconda Edizione Ampliata e Corretta*. Master, Università & Professioni, Firenze 2010 (158+x pp.).
4. L. Brugnano, C. Magherini, A. Sestini. *Calcolo Numerico, Terza Edizione*. Master, Università & Professioni, Firenze 2014 (158+x pp.). ISBN 978-88 67610174
5. L. Brugnano, C. Magherini, A. Sestini. *Calcolo Numerico, Quarta Edizione*. Master Books, Firenze 2017 (154+x pp.). ISBN 978-88 6761-0235
6. L. Brugnano. *Modelli Numerici per la Simulazione*. Master Books, Firenze 2019 (194+vi pp.). ISBN 978-88 6761-0280

## SCHOLARS

- Cecilia Magherini, Ph.D. Mathematics, University of Firenze, 2004;
- Gianluca Frasca Caccia, Ph.D. Mathematics, University of Firenze, 2015.

## IMPACT FACTORS

**Google Scholar:** H-index 37, 4469 citations;

(<http://scholar.google.com/citations?hl=en&user=6xfw4FoAAAAJ>)

**Scopus:** H-index 30, 2693 citations (plus 326 citations to the research monograph 1.);

(<https://www.scopus.com/authid/detail.uri?authorId=7004546173>)

**Web of Science:** H-index 28, 1997 citations;

(<https://www.webofscience.com/wos/author/record/A-9866-2010>)

**ORCID:** <http://orcid.org/0000-0002-6290-4107>

SciProfiles: <https://sciprofiles.com/profile/610800>

zbMATH profile: <https://zbmath.org/authors/?q=brugnano>

MathSciNet profile: <https://mathscinet.ams.org/mathscinet/MRAuthorID/291355>

## AWARDS

- In the 2019 top 2% researchers, according to Plos Biology:  
<https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000918>  
<https://doi.org/10.1371/journal.pbio.3000918>  
[https://data.mendeley.com/public-files/datasets/btchxktzyw/files/dd0904a8-0eba-4cf3-be4a-c6092261fed5/file\\_downloaded](https://data.mendeley.com/public-files/datasets/btchxktzyw/files/dd0904a8-0eba-4cf3-be4a-c6092261fed5/file_downloaded)
- “Outstanding Achievements Award”, awarded during the 2<sup>nd</sup> International Conference NUMTA 2016, held in Pizzo Calabro (Italy), on June 19-25, 2016.
- “Honorary Fellowship” of the *European Society of Computational Methods in Sciences, Engineering and Technology*, awarded during the international conference ICNAAM 2012, held in Kos (Greece), on September 19-25, 2012.

## MATHEMATICAL SOFTWARE

Coauthor, with C. Magherini, of the following Fortran codes:

1. BiM, for stiff ODE-IVPs,
2. BiMD, for stiff ODE/DAE-IVPs,

both available at the URL: <http://people.dimai.unifi.it/brugnano/BiM/index.html>

The code BiMD is also available at the web-site of the “Test Set for IVP Solvers” (<http://archimede.dm.uniba.it/~testset/testsetivpsolvers/>)

Coauthor, with F. Iavernaro, of the following Matlab code:

3. HBVM, for Hamiltonian ODE-IVPs,

available at the URL: <http://people.dimai.unifi.it/brugnano/LIMbook/software.html>

4. FHBVM, for FDE-IVPs,

available at the URL: <http://people.dimai.unifi.it/brugnano/fhbvm/>

## ORGANIZING ACTIVITIES

- Member of the Scientific Committee of the *International Conference on Numerical Analysis and Applied Mathematics (ICNAAM)* conference series (since 2009) <http://icnaam.org/>
- Member of the Scientific Committee of the *Numerical Computations: Theory and Algorithms (NUMTA)* conference series (since 2013) <http://numta.org/>
- Member of the Scientific Committee of the Conference *NAMAS-24 Numerical Analysis & Modelling in Applied Sciences*, Gaeta, Italy, September 16–20, 2024.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the 16th symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2024 – 22nd International Conference on Numerical Analysis and Applied Mathematics”, Heraklion, Crete, Greece, September 11–17, 2024.
- Member of the International Scientific Committee of the *27th International Conference Mathematical Modelling and Analysis (MMA2024)*, May 28 - 31, 2024, Pärnu, Estonia.

- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the 15th symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2023 – 22nd International Conference on Numerical Analysis and Applied Mathematics”, Heraklion, Crete, Greece, September 11–17, 2023.
- Member of the Program Committee of the *Computer Aspects of Numerical Algorithms Workshop (CANA ’23)*, Warsaw, Poland, 17–20 September, 2023.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the 14th symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2022 – 20th International Conference on Numerical Analysis and Applied Mathematics”, Heraklion, Crete, (Greece), September 19–25, 2022.
- Member of the Program Committee of the *Computer Aspects of Numerical Algorithms Workshop (CANA ’22)*, Sofia, Bulgaria, 4–7 September, 2022.
- Organizer, together with F. Mazzia, of the Workshop *Donato Trigiante: il matematico, l’uomo, le idee. Un ricordo a dieci anni dalla scomparsa*, held virtually on 20 September 2021.
- Member of the Program Committee of the *Computer Aspects of Numerical Algorithms Workshop (CANA ’21)*, Sofia, Bulgaria, 2–5 September, 2021.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the 13th symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2020 – 18th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), September 17–23, 2020 (symposium held virtually, because of the Covid19 pandemic).
- Guest editor, together with Y.D. Sergeev and A. Zhigljavsky, of the special issue “The 3rd international Conference - Numerical Computations: Theory and Algorithms - NUMTA 2019” of *Journal of Computational and Applied Mathematics*.
- Member of the Program Committee of the *Computer Aspects of Numerical Algorithms Workshop (CANA’20)*, Sofia (BG), 6–9 September, 2020.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the 12th symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2019 – 17th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), September 23–28, 2019.
- Member of the Program Committee of the Workshop *Computer Aspects of Numerical Algorithms Workshop (CANA’19)*, Leipzig (D), 1–4 September, 2019.
- Member of the Program Committee of the *3rd International Conference and Summer School “Numerical Computations: Theory and Algorithms”, NUMTA2019*, Le Castella, 15–21 June 2019.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the 11th symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2018 – 16th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), September 13–18, 2018.
- Guest editor, together with Zdzislaw Jackiewicz, Helmut Podhaisky, Yajuan Sun, Caren Tischendorf, of the special issue of *Numerical Algorithms* devoted to the ANODE 2018 Conference, Auckland, NZ, 19–23 February 2018.
- Guest editor, together with F. Iavernaro, of the special issue “Advanced Numerical Methods in Applied Sciences” of *Axioms* ([http://www.mdpi.com/journal/axioms/special\\_issues/advanced\\_numerical\\_methods](http://www.mdpi.com/journal/axioms/special_issues/advanced_numerical_methods)).
- Member of the Program Committee of the *Computer Aspects of Numerical Algorithms Workshop (CANA’18)*, Poznań (PL), 9–12 September, 2018.

- Guest editor, together with D.E. Kvasov and Y.D. Sergeyev, of the special issue “Recent Trends in Numerical Computations: Theory and Algorithms” of *Applied Mathematics and Computation*, Vol. **318** (2018).
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the 10th symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2017 – 15th International Conference on Numerical Analysis and Applied Mathematics”, Thessaloniki (Greece), 25–30 September 2017.
- Member of the Program Committee of the *Computer Aspects of Numerical Algorithms Workshop* (CANA’17), Praha (CZ), 04–07 September, 2017.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the ninth symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2016 – 13th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), 19–25 September 2016.
- Member of the Program Committee of the *2nd International Conference and Summer School “Numerical Computations: Theory and Algorithms”*, NUMTA2016, Pizzo Calabro, 19–25 June 2016.
- Member of the International Program Committee of the *Computer Aspects of Numerical Algorithms Workshop* (CANA’16), Gdańsk (Gdansk), Poland, 11–14 September, 2016.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the eighth symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2015 – 13th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), 23–29 September 2015.
- Member of the International Program Committee of the *Computer Aspects of Numerical Algorithms Workshop* (CANA’15), Lodz, Poland, 13–16 September, 2015.
- Member of the International Program Committee of the *Workshop on Numerical Algorithms on Hybrid Architectures 2015 (WNAHA15)*, Krakow, Poland, 6–9 September 2015.
- Member of the Scientific Committee of the Conference *New Trends in Numerical Analysis, (NETNA 2015)*, Falerna Lido (CS), 18–21 June 2015.
- Member of the International Program Committee of the *Computer Aspects of Numerical Algorithms Workshop* (CANA’14), Warsaw, Poland, 7–10 September, 2014.
- Member of the Program Committee of the “16th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC2014)”, Timisoara (RO), 22–25 September 2014.
- Guest Editor (with prof. Y.D. Sergeyev, University of Cosenza, Italy, and prof. A. Zhigljavskii, University of Cardiff, UK) of the special issue “NUMTA2013”, of *Communications in Nonlinear Science and Numerical Simulation*, Vol. **21** (2015).
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the seventh symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2014 – 12th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), 22–28 September 2014.
- Member of the Program Committee of the *Workshop on Numerical Algorithms on Hybrid Architectures* (PPAM2013), Warsaw, Poland, 8–11 September 2013.
- Member of the International Program Committee of the *Computer Aspects of Numerical Algorithms Workshop* (CANA’13), Krakow, Poland, 8–11 September, 2013.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the sixth symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2013 – 11th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), 21–27 September 2013.

- Guest Editor (with prof. Francesca Mazzia, University of Bari, Italy) of the special issue of the *Journal of Computational and Applied Mathematics* devoted to commemorate prof. Donato Trigiante (Vol. **236**, Issue 16, 2012).
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the fifth symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2012 – 10th International Conference on Numerical Analysis and Applied Mathematics”, Kos (Greece), 19–25 September 2012.
- Organizer (with prof. Pierluigi Amodio, University of Bari, Italy) of the session “Challenging Problems in Numerical Analysis”, within the international congress “ICNPAA 2012: Mathematical Problems in Engineering, Aerospace and Science”, Vienna, 10–14 July 2012.
- Member of the Program Committee of the international conference *Computer Aspects of Numerical Algorithms* (CANA 2012) Wroclaw (Poland), 9–12 September 2012.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the fourth symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2011 – 9th International Conference on Numerical Analysis and Applied Mathematics”, Halkidiki (Greece), 19–25 September 2011.
- Member of the Program Committee of the international conference *Computer Aspects of Numerical Algorithms* (CANA 2011), Szczecin (Poland), 19–21 September 2011.
- Organizer (with prof. Ewa Weinmueller, University of Vienna, Austria) of the third symposium on “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2010 – 8th International Conference on Numerical Analysis and Applied Mathematics”, Rhodes (Greece), 19–25 September 2010.
- Guest Editor (with prof. Jeff Cash, Imperial College, London, UK) of the special issue of the *Journal of Numerical Analysis, Industrial and Applied Mathematics* devoted to the international conference *ICNAAM 2009* (Vol. **5**, Issue 1–2, 2010).
- Member of the Program Committee of the international conference *Computer Aspects of Numerical Algorithms* (CANA’10), Wisla (PL), 18–20 October 2010.
- Guest Editor (with prof. Pierluigi Amodio, University of Bari, Italy) of the special issue of *Scalable Computing: Practice and Experience* (Vol. **10**, no. 4, 2009) in occasion of the retirement of prof. Ian Gladwell.
- Organizer of the second symposium “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2009 – 7th International Conference on Numerical Analysis and Applied Mathematics”, Rethymno, Crete (Greece), 18–22 September 2009.
- Member of the Program Committee of the international conference *Computer Aspects of Numerical Algorithms* (CANA’08), Wisla (PL), 20–22 October 2008.
- Organizer of the symposium “Recent Trends in the Numerical Solution of Differential Equations”, within the international conference “ICNAAM 2008 – 6th International Conference on Numerical Analysis and Applied Mathematics”, Kos (Greece), 16–20 September 2008.
- Member of the Program Committee of the “9th IEEE International Conference on Computational Science and Engineering - Distributed and Parallel Computing”, San Paolo (BR), 25–27 June 2008.
- Member of the Program Committee of the international conference *Computer Aspects of Numerical Algorithms* (CANA’07), Wisla (PL), 15–17 October 2007.
- Organizer (with prof. Francesca Mazzia, University of Bari, Italy) of the minisymposiums on “Software Issues” and “Software Issues II”, within the conference “SciCADE 2007, International Conference on Scientific Computation And Differential Equations”, St. Malo (France), 9–13 July 2007.

- Organizer (with prof. Francesca Mazzia, University of Bari, Italy) of the *International Workshop on the Technological Aspects of Mathematics II: Computational Methods and Mathematical Software*, Montecatini Terme (Italy), 1–3 April 2004.
- Organizer of the section of Numerical Analysis, within the *XVII Convegno UMI*, Milano (Italy), 8–13 September 2003.
- Member of the Program Committee of the *Workshop on Numerical Methods for Evolutionary Problems*, Peschici (Italy), 17–21 September 2001.
- Organizer of the minisymposium “Numerical Treatment of Differential Equations and Applications to Finance”, within the International Conference “ENUMATH 2001”, Ischia (Italy), 23–27 July 2001.
- Organizer of the session “Numerical Methods for Differential Equations” , within the *Third World Conference of Nonlinear Analysis, WCNA 2000*. Catania (Italy), 19–26 July 2000.
- Organizer (with prof. John Butcher, University of Auckland, New Zealand) of the minisymposium “Novel methods for ODEs”, within the International Conference *SCICADE 1999*. Fraser Island (Queensland, Australia), 9–14 August 1999.
- Director of the *SMI Summer School*, Perugia (Italy) July-August 2002.
- Director of the *INdAM* research unit at the University of Firenze, Italy (until 2023).
- Scientific coordinator of the two years project “Problemi evolutivi di tipo Hamiltoniano: analisi e modellistica matematica, risoluzione numerica ed applicazioni”, funded by the Università di Firenze (2014).
- Scientific coordinator of the project “Numerical methods and mathematical software for applications”, funded by the Italian MIUR within PRIN 2004.
- Scientific coordinator of the project “Software Matematico in Ambienti di Calcolo Parallelo e/o Distribuito”, funded by GNCS-INdAM in 2003.

## PLENARY LECTURES

- *24th Conference on Computational and Mathematical Methods in Science and Engineering (CMMSE 2024)*, Cadiz, Spain, July 2–8, 2024.
- *27th International Conference Mathematical Modelling and Analysis (MMA2024)*, May 28–31, 2024, Pärnu, Estonia.
- *21st International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2023)*, Heraklion, Crete (Greece), September 11–17, 2023.
- *23th Conference on Computational and Mathematical Methods in Science and Engineering (CMMSE 2023)*, Cadiz, Spain, July 3–8, 2023.
- *Numerical Computations: Theory and Algorithms (NUMTA 2023)*, the *4th International Conference and Summer School*, TUI Magic Life Calabria, June 14–20, 2023.
- *20th International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2022)*, Heraklion, Crete (Greece), September 19–25, 2022.
- *22th Conference on Computational and Mathematical Methods in Science and Engineering (CMMSE 2022)*, Cadiz, Spain, July 3–7, 2022 (on-line).
- *International Symposium on Recent Advances in Computational Analysis and Modelling (IS-RACAM)*, Roorkee University, India, June 20–24, 2022 (on-line).
- *Geometric Numerical Integration of Differential Equations*, Beijing, China, 9–13 September 2019.
- *International Conference on Scientific Computing*, Hong-Kong, China, 2–5 December 2018.
- Conference *Geometric aspects of PDEs*, Firenze, 10–11 November 2017.



- 2nd International Conference *Numerical Computations: Theory and Algorithms, NUMTA2016*, Pizzo Calabro, 19–25 June 2016.
- Workshop *Numerical methods for multi-parametric Boundary Value Problems*, Bari, 2–5 February 2016.
- *12th International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2014)*, Rhodes (Greece), 22–28 September 2014.
- *Seventh China-Italy Colloquium on Applied Mathematics (CICAM 7)*, Palermo, Italy, 8–11 September 2014.
- International Conference *Numerical Computations: Theory and Algorithms, NUMTA2013*, Falerna (CZ), Italy, 17–23 June 2013.
- *10th International Conference on Numerical Analysis and Applied Mathematics (ICNAAM 2012)*, Kos (Greece), 19–25 September 2012.
- *International Conference “MCalv6(5)*, Zaragoza (Spain), 7–8 September 2009.
- *GNCS Annual Meeting 2009*, Montecatini Terme (Italy), 3–5 February 2009.
- *11th Seminar NUMDIFF on Numerical Solution of Differential and Differential-Algebraic Equations*, Halle (Germany), 4–8 September 2006.
- Workshop on *Computational Methods for ODEs (HKODEW)*, Hong-Kong (China), 16 January 2001.
- *Second Southern Symposium on Computing*, Hattiesburg, MS (USA), 26–28 October 2000.
- Workshop *Metodi Numerici per ODEs*, Bari (Italy), 9–10 June 1998.
- *First Workshop on Numerical Analysis and Applications (WNAA 96)*, Rousse (Bulgaria), 24–27 June 1996.

## INVITED LECTURES

- Conference *UMI 2023*, Session *S10 – Sistemi dinamici e metodi numerici per le equazioni differenziali*, Pisa (I), 4–9 September 2023 (Keynote speaker).
- Conference in Honour of Prof. Ilio Galligani, Bologna, September 8, 2022.
- Conference *SIMAI 2020+2021*, MS01 “New Trends in Numerical Analysis: Theory and Applications”, Parma (I), August 30–September 3, 2021 (on-line).
- *CAM Seminar*, Chalmers University (Sweden), March 17, 2021 (on-line).
- *Congreso Bienal de la Real Sociedad Matemática Española*, Special session “Integración temporal de ecuaciones diferenciales”, Santander (E), 4–8 February 2019.
- Conference *UMI 2015*, Session *S10 – Metodi numerici per le equazioni differenziali ordinarie*, Siena (I), 7–12 September 2015.
- Workshop “Numerical Simulation of Evolutionary Processes”, Bari, Italy, 14–17 January 2014.
- “ICNAAM 2011” (symposium “Numerical Solution of Differential Equations and their Applications”) Halkidiki (Greece), 19–25 September 2011.
- “Joint Meeting UMI-DMV” (session “Adaptivity in Space and Time”) Perugia (Italy), 18–22 June 2007.
- Eleventh International Congress on Computational and Applied Mathematics “ICCAM 2004”. Leuven (Belgium), 26–30 July 2004.
- “Third Italia-China Conference on Computational and Applied Mathematics”, Grado (Italy), 17–19 November 2003.
- International Conference “SCICADE 2003”, Trondheim (Norway) 30 June–4 July 2003, (invited by prof. J.C. Butcher, presentation by Cecilia Magherini).
- “International Conference on Structured Matrices”, Hong Kong (China), 29 May–1 June 2002.

- International Conference “Structured matrices: analysis, algorithms and applications”. Cortona (Italy), 25–29 September 2000.
- International Conference “NUMDIFF 9”. Halle (Germany), 4–7 September 2000.
- International Conference “SCICADE 99”. Fraser Island (Queensland, Australia), 9–14 August 1999.
- Workshop “Giornate di Analisi Numerica”. Pisa (Italy), 26–27 May 1999.
- International Conference “SCICADE 97”. Grado (Italy), 15–19 September 1997.
- “Second World Congress of Nonlinear Analysts” (WCNA 96). Athens (Greece), 10–17 July 1996.
- International Conference “ICIAM 95”. Hamburg (Germany), 3–7 July 1995.
- International Congress on Computational and Applied Mathematics “ICCAM 94”. Leuven (Belgium), 25–29 July 1994.
- Conference “Precondizionamento di risoluzioni e sistemi di grandi dimensioni”. Cortona (Italy), 28 September –2 October 1992.

## VISITING PERIODS

- Beijing (China), April 2024 (short course held) (prof. Beibei Zhu);
- Wuhan (China), April 2024 (short course held) (prof. Chengming Huang);
- Beijing (China), September 2019 (prof. Beibei Zhu);
- Zaragoza (Spain), February 2019 (prof. Juan I. Montijano);
- Hong-Kong (China), December 2018 (prof. Raymond Chan);
- Nanjing (China), June 2018 (short course held) (prof. Yushun Wang);
- Zaragoza (Spain), October 2017 (prof. Luis Rández);
- Zaragoza (Spain), July 2017 (prof. Juan I. Montijano);
- Beijing (China), June 2017 (short course held) (prof. Yajuan Sun);
- Wuhan (China), May 2017 (short course held) (prof. Chengjian Zhang);
- Vienna (Austria), March–April 2017 (prof. Ewa Weinmüller);
- Wuhan (China), January 2016 (short course held) (prof. Chengjian Zhang);
- Beijing (China), December 2012–January 2013 (short course held) (prof. Yajuan Sun);
- Zaragoza (Spain), June 2011 (prof. Luis Rández);
- Oxford (UK), February 2011 (prof. Kevin Burrage);
- Zaragoza (Spain), February 2011 (prof. Juan I. Montijano);
- Zaragoza (Spain), February 2008 (prof. Manuel Calvo);
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