



Rosanna Campagna, PhD

Associate Professor

Academic Recruitment Field MAT/08, Numerical Analysis

Personal information and Position

Position	Associate Professor Academic Recruitment Field MAT/08, Numerical Analysis, Department of Mathematics and Physics, University of Campania "Luigi Vanvitelli", Italy
City of birth	Naples, Italy
Nationality	Italian
Gender	Female
Websites	https://sites.google.com/view/rosannacampagna/home
Institutional Home Page:	https://www.matfis.unicampania.it/dipartimento/docenti?MATRICOLA=075856
Researchgate profile:	https://www.researchgate.net/profile/Rosanna_Campagna
Work address	Department of Mathematics and Physics, University of Campania "Luigi Vanvitelli", viale Lincoln, 5, 81100, Caserta
E-mail	rosanna.campagna@unicampania.it
Researcher unique identifier	ORCID ID: https://orcid.org/0000-0003-4694-0113

Scientific affiliations

Member of the **Indam**-National Group for Scientific Computing **G.N.C.S.** ([link](#))
Member of the working group U.M.I. "Teoria dell' Approssimazione e Applicazioni"
- T.A.A. ([link](#))
Member of the "**Research ITALian network on Approximation (RITA)**" ([link](#))
Associate to **SIAM**, Society for Industrial and Applied Mathematics
Associate to **UMI**, Unione Matematica Italiana
and **SIMAI**, Società Italiana di Matematica Applicata e Industriale

Research interests

- Regression splines and P-splines for data analysis;
- spline and rational interpolation and approximation;
- numerical solution of inverse problems;
- Numerical methods for Laplace transform inversion;
- Numerical methods for data analysis.

Academic Titles

December 2019 – December 2022: **Assistant professor - RTDB, Academic Recruitment Field MAT/08**, Numerical Analysis, Department of Mathematics and Physics, University of Campania "Luigi Vanvitelli", Italy.

December 2017 - December 2019: **Research Associate - RTDA, Academic Recruitment Field MAT/08**, Numerical Analysis, Department of Agricultural Sciences, University of Naples Federico II, Italy.

February 8, 2007: Ph.D. In Mathematics, (four-year course), University of Naples Federico II, Italy.

October 23, 2002: Master degree cum laude in Mathematics, University of Naples Federico II, Italy.

Main professional experiences

April 1, 2016 – September 15, 2016, **Postdoc Researcher**, S.S.D. MAT/08, University of Naples “Parthenope”, Italy

March 5, 2015 – May 31, 2015 - Fixed-term employment- within the PON PRISMA Project, National Institute of Nuclear Physics - INFN Section of Naples, Italy

October 10, 2013 – December 9, 2014, Postdoctoral position - within the PON ReCaS Project, University of Naples Federico II, Italy.

October 15, 2010 – February 14, 2011, Postdoctoral position, University of Naples Federico II, Italy.

February 26, 2007 – October 25, 2008, **Postdoc Researcher**, S.S.D. MAT/08, within the MIUR - PON 2000/2006 - S.Co.P.E Project, University of Naples Federico II, Italy.

October 17, 2005 – November 16, 2005, Collaborator within the MIUR - Project of National Interest PRIN 2003-2005, University of Naples Federico II, Italy.

Award

Best Paper Award (2015) for: “An Approach to Model Resources Rationalisation in Hybrid Clouds through Users Activity Characterisation”, presented at FUTURE COMPUTING 2015, The Seventh International Conference on Future Computational Technologies and Applications, Nizza, France, March 22- 27, 2015.

Participation in scientific projects

May 24, 2022 – May 31, 2023

INdAM-GNCS 2022 Project: “Metodi di approssimazione data-driven per dati esatti e perturbati”, Responsabile Prof.ssa Costanza Conti, Università di Firenze, Italia.

March 09 2020 - March 08 2021

INdAM-GNCS 2020 Project: “Interpolazione e smoothing: aspetti teorici, computazionali e applicativi”, Coordinator Prof.ssa Lucia Romani, University of Bologna, Italy.

February 22, 2019 - February 21, 2020

INdAM-GNCS 2019 Project: “Kernel-based approximation, multiresolution and subdivision methods and related applications”, Coordinator Prof. Francesco Dell’Accio, University of Calabria, Italy.

March 05, 2015 – May 31, 2015

PON PRISMA Project at INFN – Unity of Naples (Scientific head Prof. Leonardo Merola, University of Naples Federico II).

October 10, 2013 – December 9, 2014

PON ReCaS Project at University of Naples Federico II (Scientific head Prof. Roberto Bellotti, University of Bari “Aldo Moro”).

February 26, 2007 – October 25, 2008

PON S.Co.P.E. Project, *High Performance Distributed Cooperative System for Multidisciplinary Processing* funded by PON-MIUR 2000/2006, at University of Naples Federico II (Scientific head Prof. Leonardo Merola, University of Naples Federico II).

October 17, 2005 – November 16, 2005

PRIN Project 2003-2005, at Department of Mathematics and Applications “R.Caccioppoli”, University of Naples Federico II.

Funding for research

Funding by the National Group for Scientific Computing (GNCS), through the GNCS 2018 Call for participation in schools, workshops, conferences, for the period September 2018 - March 2019.

1. Campagna, R., De Marchi, S., Perracchione, E., Santin, G., (2022) "**Stable interpolation with exponential-polynomial splines and node selection via greedy algorithms**", Advances in Computational Mathematics 48, 69. <https://doi.org/10.1007/s10444-022-09986-8>
2. Campagna, R., Conti, C., (2022) "**Reproduction capabilities of penalized hyperbolic-polynomial splines**", Applied Mathematics Letters, Volume 132, 2022, 108133, ISSN 0893-9659, <https://doi.org/10.1016/j.aml.2022.108133>.
3. Fuda, C., Campagna, R. & Hormann, K. (2022) "**On the numerical stability of linear barycentric rational interpolation**". Numerische Mathematik, <https://doi.org/10.1007/s00211-022-01316-w>
4. R. Campagna, E. Perracchione (2021) "**Data-driven extrapolation via feature augmentation based on variably scaled thin plate splines**", Journal of Scientific Computing, 88, 15. <https://doi.org/10.1007/s10915-021-01526-8>
5. R. Campagna, C. Conti, (2021) "**Penalized hyperbolic-polynomial splines**", Applied Mathematics Letters, 107159, ISSN 0893-9659, <https://doi.org/10.1016/j.aml.2021.107159>.
6. R. Campagna, V. Bayona, S. Cuomo, (2020) "**Using local PHS+poly approximations for Laplace Transform Inversion by Gaver-Stehfest algorithm**", Dolomites Research Notes on Approximation, Volume 13, Issue 1, pp 55-64, doi: 10.14658/PUPJ-DRNA-2020-1-7
7. R. Campagna, C. Conti, S. Cuomo (2020) "**Computational error bounds for Laplace transform inversion based on smoothing splines**", Applied Mathematics and Computation, 2020, 383, 125376, <https://doi.org/10.1016/j.amc.2020.125376>
8. R. Campagna, S. Cuomo, S. De Marchi, E. Perracchione, G. Severino (2020) "**A stable meshfree PDE solver for source-type flows in porous media**", Applied Numerical Mathematics, 2020, 149, pp. 30-42, <https://doi.org/10.1016/j.apnum.2019.08.015>.
9. R. Campagna, A. Romano, A. Raiola, P. Masi, G. Toraldo, S. Cavella (2020) "**Effects of UVC treatment on re-milled semolina dough and data - driven analysis of leavening process**", Food and Bioproducts Processing Volume 119, January 2020, Pages 31-37, <https://doi.org/10.1016/j.fbp.2019.10.009>.
10. R. Campagna, C. Conti, S. Cuomo (2019) "**Smoothing exponential-polynomial splines for multiexponential decay data**" Dolomites Research Notes on Approximation, Volume 12, Issue 1, pp. 86-100; DOI: 10.14658/pupj-drna-2019-1-9
11. L. D'Amore, V. Mele, R. Campagna (2018) "**Quality assurance of Gaver's formula for multi-precision Laplace transform inversion in real case**", Inverse Problems in Science and Engineering, 26(4), pp.553-580, DOI: 10.1080/17415977.2017.1322963.

12. R. Campagna, S. Crisci, S. Cuomo, L. Marcellino, G. Toraldo (2017) **“Modification of TV-ROF denoising model based on Split Bregman iterations”**, In Applied Mathematics and Computation, Volume 315, Pages 453-467, ISSN 0096-3003, <https://doi.org/10.1016/j.amc.2017.08.001>.
13. R. Campagna, S. Cuomo, F. Giannino, G. Severino, G. Toraldo (2017) **“A Semi-Automatic Numerical Algorithm for Turing Patterns Formation in a Reaction-Diffusion Model”** IEEE Access - Open Access, Volume 6, Pages 4720-4724, DOI: 10.1109/ACCESS.2017.2780324
14. G. B. Barone, V. Boccia, D. Bottalico, R. Campagna, L. Carracciuolo, G. Laccetti, M. Lapegna (2017) **“An Approach to Forecast Queue Time in Adaptive Scheduling: How to Mediate System Efficiency and Users Satisfaction”**, International Journal of Parallel Programming, 45: pp 1164–1193. <https://doi.org/10.1007/s10766-016-0457-y>.
15. G. Severino, R. Campagna, D. M. Tartakovsky (2017) **“An analytical model for carrier-facilitated solute transport in weakly heterogeneous porous media”**, In Applied Mathematical Modelling, Volume 44, Pages 261-273, ISSN 0307-904X, <https://doi.org/10.1016/j.apm.2016.10.064>.
16. G. B. Barone, V. Boccia, D. Bottalico, R. Campagna and L. Carracciuolo (2016) **“ScoPE@Scuola: percorsi (in)formativi sulle tematiche del supercalcolo”** Mondo Digitale, 15 (64), ISSN: 1720898X.
17. M. Raoofian Naeni, R. Campagna, M. Eskandari-Ghadi, Alireza A. Ardalan, (2015) **“Performance comparison of numerical inversion methods for Laplace and Hankel integral transforms in engineering problems”**, In Applied Mathematics and Computation, Volume 250, Pages 759-775, ISSN 0096-3003, <https://doi.org/10.1016/j.amc.2014.10.102>.
18. L. D’Amore, R. Campagna, V. Mele, and A. Murli (2014) **“Algorithm 946: ReLIADiff—A C++ Software Package for Real Laplace Transform Inversion based on Algorithmic Differentiation”**, ACM Trans. Math. Softw. 40, 4, Article 31, 20 pages. DOI: <https://doi.org/10.1145/2616971>.
19. L. D’Amore, R. Campagna, V. Mele and A. Murli (2013) **“ReLaTive. An Ansi C90 software package for the Real Laplace Transform Inversion”** Numerical Algorithms, vol. 63, Is.1, pp.187-211, DOI: 10.1007/s11075-012-9636-0, ISSN 1017-1398(Print), ISSN 1572-9265(Online).
20. L. D’Amore, R. Campagna, A. Galletti, L. Marcellino and A. Murli (2012) **“A smoothing spline that approximates Laplace transform functions only known on measurements on the real axis”** Inverse Problems Vol. 28, Issue 2 (pp:1-37), doi:10.1088/0266-5611/28/2/025007, ISSN: 0266-5611.
21. L. D’Amore, R. Campagna, L. Carracciuolo, L. Marcellino (2012) **“A PETSc Based Parallel Software for Simulations of the Dynamics of Viscoelastic**

Flows" Journal of Physical Science and Application 2 (2) 46-55, ISSN 2159-5348.

22. R. Campagna (2008) “**Il calcolo numerico dell'antitrasformata di Laplace in presenza di dati discreti**”, La Matematica nella Società e nella Cultura- Rivista della Unione Matematica Italiana, August 2008, serie I, Vol. I, N.2, *Fascicolo Tesi di Dottorato*, p. 263-266, ISSN: 1972-7356.
23. R. Campagna, L. D'Amore, A. Murli (2007) “**An efficient algorithm for regularization of Laplace transform inversion in real case**”, In Journal of Computational and Applied Mathematics, Volume 210, Issues 1–2, 2007, Pages 84-98, ISSN 0377-0427, <https://doi.org/10.1016/j.cam.2006.10.077>.

Book Chapter

1. R. Campagna, G. Laccetti, G. Severino (2017) “**The HPC ReCaS Infrastructure towards the Simulation of Subsurface Hydrological Processes**” Chapter 31 in book: High Performance Scientific Computing Using Distributed Infrastructures - Merola L., Andronico G., Bellotti R., De Nardo G., Laccetti G., Maggi G., Russo G., Silvestris L., Tangaro S., Tassi E. (eds.) - Casa editrice: World Scientific Publishing, pp.371-387 – ISBN: 978-981-4759-70-0, DOI: 10.1142/9789814759717_0031.
2. G. B. Barone, V. Boccia, D. Bottalico, R. Campagna and L. Carracciuolo (2017) “**User Recruitment and Support: A Viral Marketing Approach Based on the Word-of-Mouth Influence**” Chapter 11 in book: High Performance Scientific Computing Using Distributed Infrastructures – Merola L., Andronico G., Bellotti R., De Nardo G., Laccetti G., Maggi G., Russo G., Silvestris L., Tangaro S., Tassi E. (eds.) - Casa editrice: World Scientific Publishing, pp.117-126 – ISBN: 978-981-4759-70-0, DOI: 10.1142/9789814759717_0011.
3. R. Campagna, L. D'Amore, A. Galletti, A. Murli and M. Rizzardi (2009) “**On the Numerical Approximation of the Laplace Transform Function from Real Samples and Its Inversion**” G. Kreiss et al. (eds.), Numerical Mathematics and Advanced Applications 2009, Springer-Verlag Berlin Heidelberg 2010, Part 2, 209-216, DOI: 10.1007/978-3-642-11795-4_21, ISBN: 978-3-642-11794-7 (Print) 978-3-642-11795-4 (Online).

Conference Proceedings

1. R. Campagna and E. Perracchione, “**Feature augmentation for numerical inversion of multi-exponential decay curves**” (2022), AIP Conference Proceedings 2425, 050004 <https://doi.org/10.1063/5.0081505>
2. R. Campagna, C. Conti, S. Cuomo, “**A Procedure for Laplace Transform Inversion Based on Smoothing Exponential-Polynomial Splines**” (2020), Lecture Notes in Computer Science 11973 LNCS, pp. 11-18
3. A. Romano, R. Campagna, P., Masi, G., Toraldo, “**NMR Data Analysis of Water Mobility in Wheat Flour Dough: A Computational Approach**”(2020), Lecture Notes in Computer Science 11973 LNCS, pp. 146-157
4. A. Romano, R. Campagna, P. Masi, S. Cuomo, G. Toraldo (2018) “**Data-Driven Approaches to Predict States in a Food Technology Case Study**”, 2018 IEEE

4th International Forum on Research and Technology for Society and Industry (RTSI), Palermo, 2018, pp. 1-5, doi: 10.1109/RTSI.2018.8548426

5. R. Campagna, M. Brancaccio, S. Cuomo, S. Mazzoleni, L. Russo, K. Siettos and F. Giannino (2017) “**Numerical approaches to model perturbation fire in turing pattern formations**” AIP Conference Proceedings 1906, 100011 (2017); <https://doi.org/10.1063/1.5012381>
6. R. Campagna, S. Cuomo, S. Leveque, G. Toraldo, F. Giannino, G. Severino (2017) “**Some remarks on the numerical solution of parabolic partial differential equations**” AIP Conference Proceedings 1906, 100008 (2017); <https://doi.org/10.1063/1.5012378>
7. S. Cuomo, R. Campagna, V. Di Somma, G. Severino (2017) “**Numerical Remarks on the Estimation of the Option Price**”, Proceedings - 12th International Conference on Signal Image Technology and Internet-Based Systems, SITIS 2016, November 28 - December 1, 2016 - Naples, Italy, DOI: 10.1109/SITIS.2016.123.
8. R. Campagna, S. Crisci, S. Cuomo, A. Galletti and L. Marcellino (2016) “**A second order derivative scheme based on Bregman algorithm class**”, AIP Conf. Proc. 1776, 040007; <http://dx.doi.org/10.1063/1.4965319>.
9. R. Campagna, S. Crisci, S. Cuomo, P. De Michele, A. Galletti, L. Marcellino and A. Murano (2016) “**A novel Split Bregman algorithm for MRI denoising task in an e-Health system**”, ACM International Conference Proceeding Series of the 9th PETRA Conference, June 29 - July 01, 2016, Corfu Island, Greece, ISBN 978-1-4503-4337-4/16/06; <http://dx.doi.org/10.1145/2910674.2910692>.
10. G. B. Barone, V. Boccia, D. Bottalico, R. Campagna, L. Carracciuolo, G. Laccetti (2015) “**An Approach to Model Resources Rationalisation in Hybrid Clouds through Users Activity Characterisation**” in Proceedings of “FUTURE COMPUTING 2015.” The Seventh International Conference on Future Computational Technologies and Applications, March 22 - 27, 2015 - Nice, France, pp. 48-53, Publication date: March 22, 2015, ISSN: 2308-3735 ISBN: 978-1-61208-389-6.

PhD Thesis

R. Campagna (2007), “**Il calcolo numerico dell'antitrasformata di Laplace in presenza di dati discreti**”, Tesi di Dottorato di Ricerca in Scienze Matematiche presso l'Università degli Studi di Napoli Federico II, DOI: 10.6092/UNINA/FEDOA/1683, <http://www.fedoa.unina.it/1683/>

Speaker at international conferences

1. R. Campagna (Joint with C. Conti and S. Cuomo), “**Hyperbolic-polynomial P-splines: who, what, why**”, 6th [IM](#)-Workshop on Applied Approximation, Signals and Images, [IM](#)-Workshop Bernried 2023, Bernried, Germany, February 20 - 24, 2023

2. R. Campagna (Joint with C. Conti and S. Cuomo), "**A linear algebra approach to HP-splines frequency parameter selection**", Approximation: Theory, Methods and Applications, ATMA2023, Padova, Italy, January 18-20, 2023
3. R. Campagna (Joint with G. Toraldo), "**An algorithm for non negative P-splines**", Third International Conference on Subdivision, Geometric and Algebraic Methods, Isogeometric Analysis and Refinability in Italy, SMART2022, Rimini, Italy, September 20-24, 2022
4. R. Campagna (Joint with G. Toraldo), "**An algorithm for constrained regression by penalized splines**", Functional Analysis, Approximation Theory and Numerical Analysis, Matera, FAATNA2022, Italy, July 5-8, 2022
5. R. Campagna (Joint with C. Conti), "**Hyperbolic-polynomial penalized splines: existence, uniqueness, and reproduction properties**", Curves and Surfaces 2022, June 20th - 24th, 2022, Arcachon, France
6. R. Campagna (Joint with C. Conti), "**Linear Algebra of HP-splines**", Two Days of Numerical Linear Algebra and Applications, February 14-15, 2022, Naples, Italy
7. R. Campagna (Joint with S. De Marchi, E. Perracchione, G. Santin), "**Greedy Selection for Learning by Exponential Splines**", 5th Dolomites Workshop on Constructive Approximation and Applications, Virtual conference, September 6-10, 2021
8. R. Campagna (Joint with C. Conti), "**Penalized hyperbolic-polynomial splines**", SIMAI 2020+2021 Conference, 30 August - 3 September 2021, Parma (Italy)
9. R. Campagna (Joint with E. Perracchione), "**Data-driven extrapolation via feature augmentation for multi-exponential decay curves**", SIMAI 2020+2021 Conference, 30 August - 3 September 2021, Parma (Italy)
10. R. Campagna (Joint with C. Conti), "**Penalized hyperbolic-polynomial splines**", Prima giornata di lavoro del Gruppo U.M.I. T.A.A. [GL(GL)](TAA), May 14, 2021, Virtual Conference
11. R. Campagna (Joint with S. De Marchi, E. Perracchione, G. Santin), "**Greedy Selection for Learning by Smoothing Splines**", SIAM Conference on Computational Science and Engineering (CSE21), March 1 - 5, 2021 Virtual Conference - Originally scheduled in Fort Worth, Texas, U.S.
12. R. Campagna (Joint with E. Perracchione), "**Feature augmentation for numerical inversion of multi-exponential decay curves**", 18th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2020), 17-23 September 2020, Rhodes, Greece

13. R. Campagna (Joint with V. Bayona, S. Cuomo), “**Inverting Laplace Transform by a performing RBF-based fitting model**”, MATA2020, Multivariate Approximation: Theory and Applications 16-18 gennaio, 2020 Perugia, Italia.
14. R. Campagna (Joint with S. Cuomo, F. Dell’Accio, F. Di Tommaso), “**On the numerical stability of multinode Shepard operators**”(Poster) MATA2020, Multivariate Approximation: Theory and Applications 16-18 gennaio, 2020 Perugia, Italia.
15. R. Campagna (Joint with V. Bayona, S. Cuomo), “**Toward a RBF-based fitting model in the Laplace Transform Inversion framework**” (Poster) Dolomites ResearchWeek on Approximation - DRWA19 Alba di Canazei, Italy, September 2-6, 2019.
16. R. Campagna (Joint with C. Conti, S. Cuomo), “**Laplace Transform Inversion for multiexponential decay data by smoothing L-splines**”, “The 3rd International Conference and Summer School Numerical Computations: Theory and Algorithms, NUMTA 2019”, Le Castella di Isola Capo Rizzuto, Italy, June 15-21, 2019.
17. R. Campagna (Joint with A. Romano, P. Masi and G. Toraldo), “**Numerical approach for NMR-based analysis of water mobility in wheat flour dough**”, “The 3rd International Conference and Summer School Numerical Computations: Theory and Algorithms, NUMTA 2019”, Le Castella di Isola Capo Rizzuto, Italy, June 15-21, 2019.
18. R. Campagna (Joint with C. Conti, S. Cuomo), “**Laplace Transform Inversion for multiexponential decay data by smoothing L-splines**”, Approssimazione Multivariata: Teoria ed Applicazioni, AMTA 2019, 24-26 gennaio, Napoli, Italia
19. R. Campagna (Joint with S. Cuomo, S. De Marchi, L. Ferrara, E. Perracchione and G. Toraldo), “**A robust meshfree PDE solver for source-type flows in porous media**”, IWANASP18, International Workshop on Analysis and Numerical Approximation of Singular Problems, Cagliari, September 4-6, 2018
20. R. Campagna (Joint with S. Cuomo, S. De Marchi, L. Ferrara, E. Perracchione and G. Severino) “**A robust meshfree PDE solver for source-type flows in porous media**” (advancements), (Talk and Poster) Dolomites Research Week on Approximation - DRWA’18Alba di Canazei, Italy, September 10-14, 2018
21. R. Campagna (Joint with S. Cuomo, P. Masi, A. Romano and Gerardo Toraldo), “**Data-driven approaches to predict states in a Food Technology case study**”, (Poster) Dolomites ResearchWeek on Approximation - DRWA18Alba di Canazei, Italy, September 10-14, 2018

Conference organization

22. R. Campagna (Joint with S. Crisci, S. Cuomo, A. Galletti and L. Marcellino), “**A second order derivative scheme for the Bregman Algorithm class**” (June, 20), “The 2nd International Conference and Summer School NUMTA 2016, Numerical Computations: Theory And Algorithms”, Pizzo Calabro, Italy, 19–25 June 2016.
23. R. Campagna (Joint with L. D'Amore, A. Galletti, A. Murli), “**On the numerical approximation of the Laplace Transform function from real samples and its inversion**”, International Conference “ENUMATH 2009”, Uppsala, Svezia, 29 giugno - 3 luglio, 2009.
24. R. Campagna (Joint with L. Carracciuolo, L. D'Amore, A. Murli), “**Un software parallelo per l'inversione di dati 3D SPECT**” (Poster), Conferenza Nazionale: “Italian e-Science 2008 - IES08”, Napoli - Italia, 27-29 Maggio 2008.
25. R. Campagna (Joint with D'Amore, A. Murli), “**Inversione numerica della trasformata di Laplace nota su un insieme finito di campioni reali**”, XVIII Congresso U.M.I. - Unione Matematica Italiana, Bari - Italia, 24-29 Settembre 2007.
26. R. Campagna (Joint with L. D'Amore, A. Murli), “**On the regularization of preconditioned GMRES in a Fourier-series based method for real Inversion of Laplace Transform**”, Workshop GNCS - INDAM “Applied Inverse problems, medical imaging and astronomy”, Ischia (Na) - Italia, 27-28 ottobre 2005.
27. R. Campagna, “**On the regularization effects of the GMRES algorithm in a Fourier-series based method for numerically inverting a Laplace transform function in the real case**” (Poster), Conference “Numerical Analysis: the State of the Art - NAC2005”, Rende (CS) - Italia, 19-21 Maggio 2005.
1. **Member of the Organizing Committee of:** “*Online Seminars on Numerical Approximation and Applications, OSNA² 2021*”, **April 9, 12, 20 and 28, 2021.**
2. **Member of the Organizing Committee of: Minisymposium " Numerical Advances in Data Analysis and Machine Learning (Part I and Part II)"**, SIAM Conference on Computational Science and Engineering (CSE21), March 1 - 5, 2021 Virtual Conference - Originally scheduled in Fort Worth, Texas, U.S.
3. **Member of the Organizing Committee of:** “*Online Seminars on Numerical Approximation and Applications, OSNA² 2020*”, November 9, 17, 25 and December 3.
4. **Member of the Organizing Committee and Chairman of the Special session “Computational Methods for data analysis”** at the “The 3rd International Conference and Summer School Numerical Computations: Theory and Algorithms, NUMTA 2019”, Le Castella di Isola Capo Rizzuto, Italy, June, 15-21, 2019.
5. **Member of the Organizing Committee** at the Conference “Approssimazione Multivariata: Teoria ed Applicazioni (AMTA 2019)”, Naples, January, 24-26, 2019.
6. **Member of the Program Committee** for the “*International Workshop on Numerical Algorithms and Methods for Data Analysis and Classification (NAMDAC 2016)*” collocated within: “SITIS 2016 - *The 12th International*

Conference on Signal Image Technology & Internet Based Systems”, November 28 - December 1, 2016, Naples, Italy.

7. **Member of the Program Committee** for the “*2nd International Workshop on Numerical Algorithms and Methods for Data Analysis and Classification (NAMDAC 2017)*” collocated within: “*SITIS 2017 - The 13th International Conference on Signal Image Technology & Internet Based Systems*, 4-7 December, 2017 - Jaipur, India.
8. **Member of the Program Committee** del “*3rd International Workshop on Numerical Algorithms and Methods for Data Analysis and Classification (NAMDAC 2018)*” collocated within: “*SITIS 2018 - The 14th International Conference on Signal Image Technology & Internet Based Systems*, 26-29 November 2018 - Las Palmas de Gran Canaria, Spain.

PhD Courses

Doctoral Program in "Mathematics, Physics and Applications to Engineering" at the Department of Mathematics and Physics, University of Campania "Luigi Vanvitelli":

- ***Spline models for regression analysis, 4 Italian CFU (ECTS credits) (XXXVI and XXXVIII cycle).***
- ***Fundamentals of linear programming, numerical methods and applications, 4 Italian CFU (ECTS credits) (XXXVII cycle).***

Doctoral Programs in "Food Science" and "Sustainable Agricultural and Forestry Systems and Food Security". PhD Course at the Department of Agriculture, University of Naples Federico II:

- ***Numerical methods for data analysis with Python, 4 Italian CFU (ECTS credits) (XXXIV cycle).***

Last update: May 3, 2023

Rosanna Campagna

