

Curriculum Vitæ
Maurizio Grasselli

Born in San Remo (Italy) on January 11, 1962

CITIZENSHIP Italian

AFFILIATION Dipartimento di Matematica, Politecnico di Milano

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ERDÖS NUMBER **3**

CORRESPONDING MEMBER ISTITUTO LOMBARDO ACCADEMIA DI SCIENZE E LETTERE (APPOINTED JUNE 24, 2010)

1. EDUCATION

- 1.1.** PhD in Applied Mathematics, 1991, doctoral dissertation entitled “Identificazione di nuclei di rilassamento in equazioni integrodifferenziali di Volterra e applicazioni” (Identification of relaxation kernels in Volterra integrodifferential equations and applications).
- 1.2.** Degree in Mathematics *summa cum laude*, 1986, Università degli Studi di Milano.

2. POSITIONS

- 2.1.** Full professor of Mathematical Analysis, Politecnico di Milano, November 1, 2000 – present.
- 2.2.** Associate professor of Mathematical Analysis, Politecnico di Milano, November 1, 1992 – October 31, 2000.
- 2.3.** CNR researcher, Istituto di Analisi Numerica, Pavia, November 1, 1988 – October 31, 1992.

3. EXPERIENCE

- 3.1.** Visiting professor, School of Mathematical Sciences, Fudan University, Shanghai, P.R. China, May 23–June 5, 2019.
- 3.2.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, May 2018.
- 3.3.** Visiting professor, School of Mathematical Sciences, Fudan University, Shanghai, P.R. China, May 25–June 4, 2017.
- 3.4.** Visiting professor, The Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria, June 6–10, 2016.
- 3.5.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, May 2016.
- 3.6.** Visiting professor, IMUS, Universidad de Sevilla, Seville, Spain, June 14–19, 2015.
- 3.7.** Visiting professor, École Doctorale Sciences, Technologie et Santé (ED 547), Université de Picardie “J. Verne”, Amiens, France, April 2015.
- 3.8.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, May 2014.

- 3.9.** Senior scholar, Key Laboratory for Contemporary Mathematics, Fudan University, Shanghai, P.R. China, March 10–30, 2014.
- 3.10.** Visiting professor, KAUST, Saudi Arabia, November 20–27, 2013.
- 3.11.** Senior scholar, Key Laboratory for Contemporary Mathematics, Fudan University, Shanghai, P.R. China, June 14–28, 2013.
- 3.12.** Chercheur invité senior, Laboratoire de Mécanique des Solides, École Polytechnique, Paris, France, April 2013.
- 3.13.** Visiting professor, Fakultät für Mathematik, Universität Regensburg, Regensburg, Germany, February 4–9, 2013.
- 3.14.** Visiting professor, Department of Mathematics, Florida State University, Tallahassee, Florida, USA, July 5–11, 2012.
- 3.15.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, May 2012.
- 3.16.** Visiting professor, Nečas Center for Mathematical Modeling, Prague, Czech Republic, December 4–10, 2011.
- 3.17.** Visiting professor, Fachbereich Mathematik und Statistik, Konstanz, Germany, May 17–20, 2011.
- 3.18.** Visiting professor, Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany, May 1–6, 2011.
- 3.19.** Visiting professor, Departamento EDAN, Facultad de Matemáticas, Universidad de Sevilla, Sevilla, Spain, April 3–8, 2011.
- 3.20.** Visiting professor, School of Mathematical Sciences, Fudan University, Shanghai, P.R. China, June 8–19, 2010.
- 3.21.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, April 2010.
- 3.22.** Visiting professor, Departament Matemàtica Aplicada II, Universitat Politècnica de Catalunya, Terrassa, Spain, March 14–24, 2010.
- 3.23.** Senior researcher, Nečas Center for Mathematical Modeling, Prague, Czech Republic, April 2009.
- 3.24.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, June 1–30, 2008.
- 3.25.** Visiting professor, Institute of Mathematics, Fudan University, Shanghai, P.R. China, May 14–30, 2007.
- 3.26.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, June 2006.
- 3.27.** Visiting professor, Mathematical Institute of the Academy of Sciences of the Czech Republic, Prague, Czech Republic, November 20–27, 2005.
- 3.28.** Visiting professor, Institute of Mathematics, Fudan University, Shanghai, P.R. China, May 5–29, 2005.
- 3.29.** Visiting professor (professeur invité, première classe), Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France, May 2004.
- 3.30.** Visiting professor, Institut für Angewandte Analysis und Numerische Simulation, Universität Stuttgart, Stuttgart, Germany, May 5–11, 2003.
- 3.31.** Visiting professor, Department of Mathematics, Technion, Haifa, Israel, May 25 – June 3, 2001.
- 3.32.** Visiting professor, The Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria, December 10–14, 1999.

- 3.33. Visiting professor, Department of Mathematics, Ohio University, Athens, Ohio, USA, March 24 – June 13, 1999.
- 3.34. CNR-NATO fellow, Department of Mathematics, Ohio University, Athens, Ohio, USA, April – May, 1998.
- 3.35. Visiting professor, Department of Mathematics, Ohio University, Athens, Ohio, USA, May 26–30, 1996.
- 3.36. Visiting professor, Banach Center, Warsaw, Poland, November 27 – December 4, 1994.
- 3.37. Visiting scholar, Department of Mathematics, Rutgers University, N.J., USA, September 5, 1991 – August 31, 1992.
- 3.38. Visiting scholar, Siberian Branch of the USSR Academy of Sciences, Novosibirsk, USSR, September 25 – October 9, 1990.
- 3.39. Visiting scholar, Centro de Matematica e Aplicações Fundamentais (CMAF), Lisbon, Portugal, December 9–16, 1989.

4. TALKS

- 4.1. “An inverse integrodifferential hyperbolic problem arising in Geophysics”, II Hotine-Marussi Symposium on Mathematical Geodesy, July 5–8, 1989, Scuola Normale Superiore, Pisa, Italy.
- 4.2. “Some inverse problems in the theory of materials with memory”, 8th France - USSR - Italy joint Symposium on Computational Mathematics and Applications, October 2–6, 1989, Pavia, Italy.
- 4.3. “Some identification problems in the theory of materials with memory”, December 14, 1989, Centro de Matematica e Aplicações Fundamentais (CMAF), Lisbon, Portugal.
- 4.4. “Identification of relaxation kernels in materials with memory”, Symposium on inverse and ill-posed problems, October 1–6, 1990, Samarkand, Uzbekistan.
- 4.5. “An inverse problem for a nonlinear integrodifferential evolution equation and applications”, Interdisciplinary Meeting on Nonlinear Evolutions and Inverse Methods, November 30 – December 4, 1990, Montpellier, France.
- 4.6. “Identification of relaxation kernels in materials with memory”, ICIAM 91, July 8–12, Washington, USA.
- 4.7. “Diffusion effects in the sliding filament model of muscle contraction”, IMACS 91, July 22–26, Dublin, Ireland.
- 4.8. “Phase changes in materials with memory”, 10th France - Russia - Italy joint Symposium on Computational Mathematics and Applications, July 5–8, 1993, Moscow, Russia.
- 4.9. “Determining the relaxation kernels in linear viscoelastic media of integral type”, International Conference on Inverse Problems: Principles and Applications in Geophysics, Technology and Medicine, August 30–September 3, 1993, Potsdam, Germany.
- 4.10. “On identification problems in materials with memory”, September 6, 1993, Institut für Angewandte Mathematik I, Bergakademie, Freiberg, Germany.
- 4.11. “Singular perturbation problems in phase change models with memory”, 2nd European Conference on Elliptic and Parabolic Problems, June 13–17, 1994, Pont-à-Mousson, France.

- 4.12. “Identifying relaxation kernels in viscoelasticity of Boltzmann type”, 2nd International Symposium on Inverse Problems in Engineering Sciences, July 27–30, 1994, Osaka Institute of Technology, Osaka, Japan.
- 4.13. “An inverse problem arising in homogenization of linear viscoelastic media of Kelvin-Voigt type”, August 3, 1994, Department of Mathematics, University of Tokyo, Tokyo, Japan.
- 4.14. “Asymptotic analysis of phase change models with memory ”, November 28, 1994, Banach Center, Warsaw, Poland.
- 4.15. “An inverse problem in population dynamics”, Symposium on Inverse Problems, March 13–14, 1995, TU Chemnitz, Chemnitz, Germany.
- 4.16. “On an phase-field model with memory”, Volterra Centennial Symposium, May 23–25, 1996, University of Texas at Arlington, Arlington, Texas, USA.
- 4.17. “Some phase transition problems in materials with memory ”, May 29, 1996, Department of Mathematics, Ohio University, Athens, Ohio, USA.
- 4.18. “A standard phase-field model with memory”, ESF-FBP Workshop “Phase Transitions and Surface Tension”, September 9–12, 1996, Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany.
- 4.19. “Asymptotic analysis of a phase-field model with memory”, Free Boundary Problems Theory and Applications (FBP 97), June 8–14, 1997, Herakleion, Crete, Greece.
- 4.20. “Some problems of automatic control of the temperature”, 2nd Saxon Symposium on Inverse Problems, September 24–26, 1997, Oybin, Germany.
- 4.21. “A phase-field model with memory in a history space setting”, Phase Field Models and Surface Effects, September 14–18, 1998, Cortona, Italy.
- 4.22. “Long time behavior in phase-field models with memory”, Equadiff 99, August 1–7, 1999, Berlin, Germany.
- 4.23. “Stefan problems with memory and doubly nonlinear integrodifferential equations”, Free Boundary Problems Theory and Applications (FBP 99), November 7–13, 1999, Chiba, Japan.
- 4.24. “Hyperbolic phase transition dynamics”, Phase Transitions and Interfaces in Evolution Equations: analysis, control, and approximation, February 8–13, 2000, Santa Margherita Ligure, Italy.
- 4.25. “Attractors of phase-field models with memory”, Third World Congress of Nonlinear Analysts (WCNA - 2000), July 19–26, 2000, Catania, Italy.
- 4.26. “Inverse source problems for the Lamé system”, Second Meeting on Inverse and Direct Problems and Applications, April 2–6, 2001, Gargnano, Italy.
- 4.27. “Phase-field models with memory as dissipative dynamical systems”, May 29, 2001, Department of Mathematics, Technion, Haifa, Israel.
- 4.28. “Inverse source problems for the elasticity system”, Minicourse on Inverse Problems, September 24–28, 2001, Trieste, Italy.
- 4.29. “Parabolic-hyperbolic phase-field systems”, Evolution Equations and Semigroups, April 8–12, 2002, Cortona, Italy.
- 4.30. “Phase-field models with memory as dissipative dynamical systems”, Third Meeting on Inverse and Direct Problems and Applications, March 31 – April 4, 2003, Gargnano, Italy.
- 4.31. “Asymptotic behavior of nonconserved phase-fields systems”, May 7, 2003, Institut für Angewandte Analysis und Numerische Simulation, University of Stuttgart, Stuttgart, Germany.

- 4.32. “Hyperbolic relaxation of Cahn-Hilliard equations”, May 13, 2004, Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France.
- 4.33. “Attractors for singularly perturbed Cahn-Hilliard equations”, May 17, 2004, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.34. “A reaction-diffusion equation with memory”, Evolution Equations and Semigroups, June 20–25, 2004, Cortona, Italy.
- 4.35. “Memory relaxation of Allen-Cahn and Cahn-Hilliard equations”, Dissipative models in phase transitions, September 6–11, 2004, Cortona, Italy.
- 4.36. “On a parabolic-hyperbolic phase-field system with singular potential”, Direct and Inverse Problems in Evolution Equations, March 17–19, 2005, Rimini, Italy.
- 4.37. “Parabolic-hyperbolic phase-field systems”, May 11, 2005, Fudan University, Shanghai, P.R. China.
- 4.38. “Convergence to stationary states for evolution equations with memory”, Inverse and Direct Problems and Applications, June 20–24, 2005, Cortona, Italy.
- 4.39. “Memory relaxation of first-order semilinear evolution equations”, November 22, 2005, Mathematical Institute of the Academy of Sciences of the Czech Republic, Prague, Czech Republic.
- 4.40. “Population dynamics with infinite time delay”, Inverse and Control Problems for PDE’s, March 13–16, 2006, Roma, Italy.
- 4.41. “Nonlocal phase-field systems”, June 15, 2006, Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France.
- 4.42. “An integrodifferential system arising from the theory of phase transitions”, June 23, 2006, Journée sur les équations aux dérivées partielles non linéaires, Laboratoire de Mathématiques et Applications, Université de La Rochelle, La Rochelle, France.
- 4.43. “Parabolic-hyperbolic phase-field systems”, Joint Meeting of UMI-SIMAI / SMAI-SMF “Mathematics and its Applications”, July 3–7, 2006, Torino, Italy.
- 4.44. “Allen-Cahn equations with memory”, (part I) May 30, (part II) May 31, 2007, Donghua University, Shanghai, P.R. China.
- 4.45. “Singularly perturbed Cahn-Hilliard equations”, International Conference on Non-linear Partial Differential Equations and Their Applications, June 1–4, 2007, Donghua University, Shanghai, P.R. China.
- 4.46. “Phase-field systems with dynamic boundary conditions”, Special Session “Phase transitions and hysteresis in free boundary problems”, Joint International Meeting UMI-DMV, June 18–22, 2007, Perugia, Italy.
- 4.47. “Caginalp systems with memory”, Direct, Inverse and Control Problems for PDE’s, June 25–28, 2007, Roma, Italy.
- 4.48. “Cahn-Hilliard type equations with inertial term”, Mathematical Models for Complex Systems, September 26–29, 2007, Cortona, Italy.
- 4.49. “On the long time behavior of Caginalp phase-field models”, Free Boundary Problems 2007, November 26–30, 2007, Chiba, Japan.
- 4.50. “Cahn-Hilliard equations with inertial term”, International Conference on Interdisciplinary Mathematical & Statistical Techniques, May 16–18, 2008, The University of Memphis, Memphis, Tennessee, USA.
- 4.51. “Phase-field systems with dynamic boundary conditions”, 7th AIMS Conference on Dynamical Systems, Differential Equations and Applications May 18–21, 2008, The University of Texas at Arlington, Arlington, Texas, USA .

- 4.52. “Hyperbolic Cahn-Hilliard equations: an overview”, Workshop on modèles mathématiques en science des matériaux, June 12, 2008, Université de Poitiers, Poitiers, France.
- 4.53. “Hyperbolic Cahn-Hilliard equations”, Workshop on Partial Differential Equations, August 26–29, 2008, Rio de Janeiro, Brazil.
- 4.54. “Phase transition systems with dynamic boundary conditions”, Direct, Inverse and Control Problems for PDE’s, September 22–26, 2008, Cortona, Italy.
- 4.55. “Longtime behavior of binary fluid mixtures”, Phase Variations 2009, May 21–22, 2009, Pavia, Italy.
- 4.56. “Longtime behavior of diffuse interface models for incompressible two-phase flows”, Workshop on Partial Differential Equations, August 25–28, 2009, Rio de Janeiro, Brazil.
- 4.57. “Asymptotic behavior of Cahn-Hilliard-Navier-Stokes systems”, 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, May 25–28, 2010, TU Dresden, Dresden, Germany.
- 4.58. “Cahn-Hilliard equations with inertial term”, 8th AIMS Conference on Dynamical Systems, Differential Equations and Applications, May 25–28, 2010, TU Dresden, Dresden, Germany.
- 4.59. “Asymptotic behavior of Cahn-Hilliard fluids”, International Conference on Advances in Partial Differential Equations and their Applications, May 31 – June 4, 2010, Fudan University, Shanghai, P.R. China.
- 4.60. “Recent results on the Cahn-Hilliard equation with inertial term”, International Conference on Applied Analysis, June 5–8, 2010, Donghua University, Shanghai, P.R. China.
- 4.61. “Cahn-Hilliard equations with memory and dynamic boundary conditions”, Evolution Equations and Materials with Memory, July 12–14, 2010, Università di Roma “La Sapienza”, Roma, Italy.
- 4.62. “Singularly perturbed Cahn-Hilliard equations”, Nonconvex Evolution Problems, November 30–December 3, 2010, Istituto Nazionale di Alta Matematica, Roma, Italy.
- 4.63. “Attractors of evolution equations of incompressible isothermal binary fluid mixtures”, 5th Anniversary of the Nečas Center for Mathematical Modeling, December 17–19, 2010, Prague, Czech Republic.
- 4.64. “Longtime behavior of binary fluid mixtures with shear dependent viscosity”, Phase Field Models in Fluid Mechanics, Universität Regensburg, February 14–16, 2011, Regensburg, Germany.
- 4.65. “Some results on Cahn-Hilliard-Navier-Stokes systems”, One-day workshop on deterministic and stochastic dynamical systems, Universidad de Sevilla, April 4, 2011, Sevilla, Spain.
- 4.66. “Recent results on Cahn-Hilliard-Navier-Stokes systems”, Weierstrass Institute for Applied Analysis and Stochastics, May 3, 2011, Berlin, Germany.
- 4.67. “Cahn-Hilliard equations with memory effects”, Fachbereich Mathematik und Statistik, May 19, 2011, Konstanz, Germany.
- 4.68. “Asymptotic behavior of solutions to nematic liquid crystal models”, New Trends in Analysis and Control of PDEs, June 13–15, 2011, Istituto Nazionale di Alta Matematica, Roma, Italy.

- 4.69. “On a nonlocal Cahn-Hilliard-Navier-Stokes system”, Interfaces and Discontinuities in solids, liquids and crystals, June 20–23, 2011, Gargnano, Italy.
- 4.70. “Nonlocal phase-field systems with general potentials”, December 6, 2011, Mathematical Institute of the Academy of Sciences of the Czech Republic, Prague, Czech Republic.
- 4.71. “Nonlocal diffuse interface models of viscous incompressible binary fluid mixtures”, May 15, 2012, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.72. “Phase-field models with nonlocal interactions”, May 23, 2012, Département Mathématiques, ENS Cachan, Antenne de Bretagne, Rennes, France.
- 4.73. “Recent results on phase field systems with nonlocal interactions”, Free Boundary Problems, June 11–15, 2012, Frauenchiemsee, Germany.
- 4.74. “Cahn-Hilliard-Navier-Stokes systems with nonlocal interactions”, June 28, 2012, Department of Mathematics and Statistics, Florida International University, Miami, Florida, USA.
- 4.75. “Cahn-Hilliard-Navier-Stokes systems with nonlocal interactions”, 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 1–5, 2012, Orlando, Florida, USA.
- 4.76. “Cahn-Hilliard equations with memory effects”, 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 1–5, 2012, Orlando, Florida, USA.
- 4.77. “Asymptotic behavior of solutions to nematic liquid crystal models”, 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 1–5, 2012, Orlando, Florida, USA.
- 4.78. “Diffuse interface models of viscous incompressible binary fluid mixtures: recent results”, July 6, 2012, Department of Mathematics, Florida State University, Tallahassee, Florida, USA.
- 4.79. “Global attractors for Cahn-Hilliard-Navier-Stokes systems with nonlocal interactions”, ADMAT 2012 - PDEs for multiphase advanced materials, September 17–21, 2012, Cortona, Italy.
- 4.80. “Phase field models with nonlocal interactions”, February 7, 2013, Kepler Kolloquium, Fakultät für Mathematik, Universität Regensburg, Regensburg, Germany.
- 4.81. “On some nonlocal phase-field models”, April 8, 2013, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.82. “The Cahn-Hilliard equation”, April 18, 2013, Laboratoire de Mécanique des Solides, École Polytechnique, Paris, France.
- 4.83. “Nonlocal Cahn-Hilliard-Navier-Stokes systems with nonconstant mobility”, Diffuse Interface Models (DIMO2013), September 10–13, Levico Terme, Italy.
- 4.84. “Nonlocal Cahn-Hilliard-Navier-Stokes systems”, November 26, 2013, KAUST, Saudi Arabia.
- 4.85. “Nonlocal diffuse interface models for two-phase fluids”, March 24, 2014, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, P.R. China.
- 4.86. “Nonlocal Cahn-Hilliard equations: regular versus singular interaction kernels”, May 12, 2014, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.

- 4.87. “Cahn-Hilliard-Navier-Stokes systems with nonlocal interactions”, Journée EDP, May 26, 2014, LMA, Université de Poitiers, Poitiers, France.
- 4.88. “Nonlocal Cahn-Hilliard-Navier-Stokes systems: the 2D case”, RIPE60 - Rate Independent Processes and Evolution Workshop, June 24–26, 2014, Mathematical Institute of the Academy of Sciences of the Czech Republic, Prague, Czech Republic.
- 4.89. “Nonlocal Cahn-Hilliard-Navier-Stokes systems”, 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 7–11, 2014, Madrid, Spain.
- 4.90. “The modified phase field crystal equation”, 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 7–11, 2014, Madrid, Spain.
- 4.91. “Cahn-Hilliard equations with inertial term and dynamic boundary conditions”, 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 7–11, 2014, Madrid, Spain.
- 4.92. “Nonlocal diffuse interface models for two-phase fluids”, WCCM XI - ECCM V - ECFD 6, July 21–25, 2014, Barcelona, Spain.
- 4.93. “Theoretical aspects of diffuse interface models for two-phase fluids”, XIXth Symposium on Trends in Applications of Mathematics to Mechanics, September 8-11, 2014, Poitiers, France.
- 4.94. “On a diffuse interface model for tumor growth”, April 27, 2015, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.95. “On Cahn-Hilliard-Brinkman and Cahn-Hilliard-Hele-Shaw systems”, Special Materials in Complex Systems, May 18-22, 2015, Istituto Nazionale di Alta Matematica, Roma, Italy.
- 4.96. “Nonlocal Cahn-Hilliard-Navier-Stokes systems”, One-day workshop on deterministic and stochastic partial differential equations, Universidad de Sevilla, June 18, 2015, Sevilla, Spain.
- 4.97. “Nonlocal Cahn-Hilliard equations”, The Eighth Congress of Romanian Mathematicians, June 25 - July 1, 2015, Iași, Romania.
- 4.98. “Cahn-Hilliard-Navier-Stokes systems with moving contact lines”, MoMatFlu 2016, February 22 - 26, 2016, Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany.
- 4.99. “Cahn-Hilliard-Navier-Stokes systems with generalized Navier boundary conditions”, May 8, 2016, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.100. “Nonlocal Cahn-Hilliard equations: the strict separation property and some consequences”, OCERTO 2016 - Optimal Control for Evolutionary PDEs and Related Topics, June 20–24, 2016, Cortona, Italy.
- 4.101. “Nonlocal Cahn-Hilliard-Navier-Stokes systems with singular potential”, May 16, 2017, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.102. “Nonlocal Cahn-Hilliard-Navier-Stokes systems with singular potential: regularity results in dimension two”, May 31, 2017, School of Mathematical Sciences, Fudan University, Shanghai, P.R. China.
- 4.103. “A very simple continuous mixture model for tumor growth”, 37ème Colloque de la Société Francophone de Biologie Théorique, June 26–29, 2017, Poitiers, France.

- 4.104. “Local and nonlocal Cahn-Hilliard-Hele-Shaw systems”, International Conference on Applied Mathematics, January 3–6, 2018, FIU, Miami, USA.
- 4.105. “The separation property for solutions to the Cahn-Hilliard equation”, Trends in variational evolution, February 21, 2018, University of Vienna, Austria.
- 4.106. “The Cahn-Hilliard equation and the separation property”, May 3, 2018, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.107. “Phase separation and separation property”, May 22, 2018, LaSIE, Université de La Rochelle, La Rochelle, France.
- 4.108. “Cahn-Hilliard-Hele-Shaw systems”, May 24, 2018, Laboratoire de Mathématiques et Applications, Université de Poitiers, Poitiers, France.
- 4.109. “Recent results on Cahn-Hilliard-Hele-Shaw systems”, Special Materials in Complex Systems, June 18-22, 2018, Gargnano, Italy.
- 4.110. “Recent results on the nonlocal Cahn-Hilliard equation”, 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 5–9, 2018, Taipei, Taiwan.
- 4.111. “Cahn-Hilliard-Hele-Shaw systems as simple mixture models for tumor growth”, 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, July 5–9, 2018, Taipei, Taiwan.
- 4.112. “Equazioni di Cahn-Hilliard e proprietà di separazione delle soluzioni”, Dipartimento di Matematica, Università degli Studi di Roma “Tor Vergata”, December 18, 2018.
- 4.113. “Diffuse interface models for incompressible binary fluids with moving contact lines”, Lia Copdesk Workshop on Calculus of Variations and Nonlinear PDEs, March 25–28, 2019, Regensburg, Germany.
- 4.114. “A mathematical model for marble sulphation”, INdAM Workshop on Mathematical modeling and Analysis of degradation and restoration in Cultural Heritage (MACH), March 25–29, 2019, Roma, Italy.
- 4.115. “The nonlocal Cahn-Hilliard equation: an overview and some recent results”, Lebanese International Conference on Mathematics and Applications (LICMA ’19), April 15–18, 2019, Beirut, Lebanon.
- 4.116. “Cahn-Hilliard-Hele-Shaw systems and tumor growth dynamics”, Laboratoire Jacques-Louis Lions, Sorbonne Université, May 6, 2019, Paris.
- 4.117. “The nonlocal Cahn-Hilliard equation: what we know so far”, International Workshop on Recent advances in Phase-Field modeling: from Engineering to Biology (PHASE 2019), May 8–10, 2019, Pavia, Italy.
- 4.118. “Incompressible binary fluids with unmatched densities and moving contact lines”, May 15, 2019, Laboratoire Amiénoise de Mathématique Fondamentale et Appliqué, Université de Picardie “J. Verne”, Amiens, France.
- 4.119. “Un problema di controllo ottimo per un sistema di Cahn-Hilliard-Navier-Stokes non-locale”, XXI Congresso dell’Unione Matematica Italiana, September 2–7, 2019, Pavia, Italy.
- 4.120. “Mathematical models of phase separation in binary liquids”, Workshop on Mathematical Biology: Modeling, Analysis and Simulation, January 20–23, 2020, Institute for Mathematical Sciences, National University of Singapore, Singapore.

5. REFEREE AND REVIEW WORK

- Reviewer for the Mathematical Reviews (since 1995).
- Reviewer for the Institute of Physics (since 1998).
- Referee for: *Acta Applicanda Mathematicae*, *Advances in Mathematical Sciences and Applications*, *Annales de l'Institut Henri Poincaré (C) Analyse Non Linéaire*, *Annali di Matematica Pura e Applicata*, *Annali dell'Università di Ferrara*, *Applied Mathematics Letters*, *Applied Mathematics and Optimization*, *Archive for Rational Mechanics and Analysis*, *Asymptotic Analysis*, *Bollettino dell'Unione Matematica Italiana*, *Calculus of Variations and Partial Differential Equations*, *Boundary Value Problems*, *Bulletin of the Belgian Mathematical Society*, *Central European Journal of Mathematics*, *Chaos Solitons & Fractals*, *Communications in Mathematical Physics*, *Communications in Partial Differential Equations*, *Communications on Pure and Applied Analysis*, *Computers & Mathematics with Applications*, *Continuum Mechanics and Thermodynamics*, *Differential and Integral Equations*, *Discrete and Continuous Dynamical Systems (Series A,B,S)*, *Dynamics of Partial Differential Equations*, *Electronic Journal of Differential Equations*, *European Journal of Applied Mathematics*, *Indiana University Mathematics Journal*, *Interfaces and Free Boundaries*, *International Journal of Mathematics and Mathematical Sciences*, *Inverse Problems*, *Journal of Applied Mathematics*, *Journal of Differential Equations*, *Journal of Dynamics and Differential Equations*, *Journal of Evolution Equations*, *Journal of Inverse and Ill-Posed Problems*, *Journal of Mathematical Analysis and Applications*, *Journal of Mathematical Fluid Mechanics*, *Journal of Nonlinear Science*, *Mathematical Methods in the Applied Sciences*, *Mathematical Modelling and Analysis*, *Mathematical Models and Methods in Applied Sciences*, *Mathematische Nachrichten*, *Meccanica*, *Mediterranean Journal of Mathematics*, *Milan Journal of Mathematics*, *Nonlinear Analysis*, *Nonlinear Analysis: Real World Applications*, *Nonlinear Differential Equations and Applications*, *Nonlinearity*, *Numerical Functional Analysis and Optimization*, *Quarterly of Applied Mathematics*, *Physica D*, *Physics Letters A*, *Proceedings of the Royal Society of Edinburgh*, *Rendiconti del Seminario Matematico Università e Politecnico di Torino*, *Science China Mathematics*, *SIAM Journal on Control and Optimization*, *SIAM Journal on Mathematical Analysis*, *The IMA Journal of Applied Mathematics*, *Zeitschrift für Analysis und ihre Anwendungen*, *Zeitschrift für Angewandte Mathematik und Mechanik*.

6. ORGANIZATION

- 6.1. “Phase transitions and dissipation phenomena”, Milano, Italy, September 6–10, 1999 [organizing committee].
- 6.2. “Mathematical Models and Analytical Problems for Special Materials”, Salò, Italy, July 15–17, 2004 [scientific committee].
- 6.3. “Free Boundary Problems in Biomathematics, Multiscaling, Infinite-Dimensional Dynamical Systems”, Montecatini Terme, Italy, June 10–12, 2004 [scientific committee].
- 6.4. “22nd IFIP TC 7 Conference on System Modeling and Optimization”, Torino, Italy, July 18–22, 2005 [scientific committee].
- 6.5. “6th AIMS Conference on Dynamical Systems, Differential Equations and Applications”, Poitiers, France, June 25–28, 2006 [global organizing committee, session

- organizer].
- 6.6. “Recent Advances in Free Boundary Problems and related topics”, Levico, Italy, September 14–16, 2006 [scientific committee].
 - 6.7. “International Conference on Nonlinear Partial Differential Equations and Their Applications”, Donghua University, Shanghai, P.R. China, June 1–4, 2007 [scientific committee].
 - 6.8. “EVEQ 2008 International Summer School on Evolution Equations”, Prague, Czech Republic, June 16–20, 2008 [scientific committee].
 - 6.9. “7th AIMS Conference on Dynamical Systems, Differential Equations and Applications”, Arlington, Texas, USA, May 18–21, 2008 [session organizer].
 - 6.10. “6th European Conference on Elliptic and Parabolic Problems”, Gaeta, Italy, May 25–29, 2009 [session organizer].
 - 6.11. “Mathematical Models and Analytical Problems for Special Materials ”, Brescia, Italy, July 9–11, 2009 [scientific committee].
 - 6.12. “8th AIMS Conference on Dynamical Systems, Differential Equations and Applications”, Dresden, Germany, May 25–28, 2010 [session organizer].
 - 6.13. “International Conference on Nonlinear Partial Differential Equations and Their Applications”, Donghua University, Shanghai, P.R. China, June 5–8, 2010 [scientific committee].
 - 6.14. “Dissipative PDEs in Bounded and Unbounded Domains and Related Attractors”, International Centre for Mathematical Sciences, Edinburgh, UK, September 20–24, 2010 [organizing committee].
 - 6.15. “Trends in Mathematical Analysis”, Politecnico di Milano, Milano, Italy, March 1–3, 2012 [organizing and scientific committees].
 - 6.16. “Mathematical Models and Analytical Problems for Special Materials”, Istituto Nazionale di Alta Matematica, Rome, Italy, April 16–20, 2012 [organizing and scientific committees].
 - 6.17. “9th AIMS Conference on Dynamical Systems, Differential Equations and Applications”, July 1–5, 2012, Orlando, Florida, USA [session organizer].
 - 6.18. “Mathematics in a Complex World”, February 29 - March 1, 2013, Politecnico di Milano, Milano, Italy [scientific committee].
 - 6.19. “10th AIMS Conference on Dynamical Systems, Differential Equations and Applications”, July 7–11, 2014, Madrid, Spain [session organizer].
 - 6.20. “XIII Biannual Congress of the Italian Society of Industrial and Applied Mathematics (SIMAI)”, September 13–16, 2016, Politecnico di Milano, Milano, Italy [session organizer].
 - 6.21. “12th AIMS Conference on Dynamical Systems, Differential Equations and Applications”, July 5–9, 2018, Taipei, Taiwan [session organizer].
 - 6.22. “Workshop on PDEs for Biology systems”, IMUS Sevilla, April 8–10, 2019, Sevilla, Spain [scientific committee].

7. EDITORIAL ACTIVITIES

- 7.1. *Milan Journal of Mathematics*, Birkhäuser, managing editor since 2003.
- 7.2. *Asymptotic Analysis*, IOS Press, member of the editorial board since January 2012.
- 7.3. *Journal of Inverse and Ill-Posed Problems*, De Gruyter, member of the editorial board since January 2014.

- 7.4. *AIMS Mathematics*, AIMS Press, member of the editorial board since February 2016.
- 7.5. *Computational and Applied Mathematics*, Springer, member of the editorial board since May 2016.
- 7.6. Book Series on *Differential Equations & Dynamical Systems*, AIMS Press, member of the editorial board since December 2016.
- 7.7. Co-editor of *Asymptotic behavior of dissipative PDEs*, Discrete Cont. Dyn. Syst. Ser. S, 2 (2009), i+1-219.
- 7.8. Co-editor of *Dynamical Systems and Differential Equations*, DCDS Supplement 2011, Proceedings of the 8th AIMS International Conference, Dresden, Germany.
- 7.9. Co-editor of *Dynamical Systems and Differential Equations - Series B*, Special issue dedicated to Mauro Fabrizio's 70th birthday, Vol. 19, No. 7, 2014.

8. MEMBERSHIPS

- 8.1. The International Society for the Interaction of Mechanics and Mathematics (since 2006).
- 8.2. Seminario Matematico e Fisico di Milano, directorial committee (2003-2017).
- 8.3. Unione Matematica Italiana (since 1987).

9. PHD STUDENTS

- 9.1. F.M. Vegni, *Conserved phase-field models with memory in history spaces*, 2001.
- 9.2. G. Mola, *Global and exponential attractors for a conserved phase-field system with Gurtin-Pipkin heat conduction law*, 2006.
- 9.3. S. Frigeri, *Longtime behavior of some semilinear hyperbolic systems*, 2009.
- 9.4. S. Bosia, *On some multi-phase problems in Continuum Mechanics*, 2013.
- 9.5. A. Giorgini, *Mathematical analysis of some diffuse interface models for binary fluids*, 2018.