



### Academic Positions

2001–present **Associate Professor (MAT/05)**, *University of Perugia*  
2003 **Visiting Associate Professor**, *University of Tennessee, Knoxville (USA)*  
1992–01 **Researcher (A02A)**, *University of Perugia*

### Research Areas

Evolution partial differential equations modelling physical phenomena; dynamic and acoustic boundary conditions; well-posedness and ill-posedness, both local and global; blow-up phenomena and asymptotic behaviour.

### Education

1990–1992 **PhD in Mathematics**, *Scuola Normale Superiore, Pisa*, (not completed due to appointment as University Researcher)  
1985–1989 **Laurea in Mathematics**, *University of Perugia*, 110/110 cum laude, Advisor: Domenico Candeloro; Thesis: Invariant measures for expansive transformations  
1980–1985 **Scientific High School Diploma**, *Liceo Scientifico "G. Alessi", Perugia*, 60/60

### Scientific Recognitions

2018 **National Scientific Qualification as Full Professor**, Field MAT/05 – Mathematical Analysis  
2013 **National Scientific Qualification as Full Professor**, Field MAT/05 – Mathematical Analysis  
2001 **Winner of the competition for Associate Professor**, *University of Modena*  
2001 **CNR Short Mission Grant**, *School of Mathematics, University of Minnesota, USA*  
1998 **CNR Short Mission Grant**, *Institute for Mathematics and its Applications, University of Minnesota, USA*, (not used due to bereavement)  
1997 **CNR Short Mission Grant**, *Institute for Mathematics and its Applications, University of Minnesota, USA*  
1992 **Winner of the competition for University Researcher**, *University of Perugia*  
1990 **Winner of the competition for PhD Position**, *Scuola Normale Superiore, Pisa*  
1989 **CNR Scholarship for Young Researchers**, *National Research Council of Italy*

### Research Impact

**G. Scholar** Publications 45; Citations 1449; H-Index 16; i10-Index 21  
**Math. Rev.** Id 326765; Total Publications 40; Total Citations 824 in 552 publications; Unique Citing Authors 558  
**WOS** ID B-2287-2013; Publications 31; Citing Articles 614; Citing Articles without self-citations 591; Times Cited 825; Times Cited Without self-citations 750; Average citations per item 26.61; H-Index 12  
**Scopus** ID 6602377016; Publications 32; Times Cited 895; Times Cited Without self-citations 822.

### Research Visits in Foreign Universities

2023 **Mathematisches Institut**, *Albert-Ludwigs-Universität, Freiburg, Germany*  
2008 **Departamento de Matemáticas**, *Universidad Autónoma de Madrid, Spain*  
2006 **Departamento de Matemáticas**, *Universidad Autónoma de Madrid, Spain*  
2004 **Departamento de Matemáticas**, *Universidad Autónoma de Madrid, Spain*  
2003 **Departamento de Matemáticas**, *Universidad Autónoma de Madrid, Spain*  
2003 **Department of Mathematics**, *University of Tennessee, Knoxville, USA*  
2002 **Departamento de Matemáticas**, *Universidad Autónoma de Madrid, Spain*

2001 **Department of Mathematical Sciences**, University of Wisconsin–Milwaukee, USA  
 2001 **School of Mathematics**, University of Minnesota, USA  
 1999 **School of Mathematics**, University of Minnesota, USA  
 1999 **Bulgarian Academy of Sciences**, Sofia, Bulgaria  
 1997 **Institute for Mathematics and its Applications**, University of Minnesota, USA

## Main Invited Conferences

2024 **AIMS – Hyperbolic PDEs**, New York University Abu Dhabi, United Arab Emirates  
 2024 **AIMS – Evolutionary Equation Systems**, New York University Abu Dhabi, United Arab Emirates  
 2023 **Geometric Aspects of Evolution and Control**, FernUniversität in Hagen, Germany  
 2023 **Mathematisches Institut – Applied Mathematics Division, Albert-Ludwigs-Universität Freiburg**, Freiburg, Germany  
 2021 **Forschungsseminars Analysis**, FernUniversität in Hagen, Hagen, Germany  
 2023 **Analysis and PDEs – 65th birthday of V. Rădulescu**, University of Insubria, Varese, Italy  
 2017 **Departamento de Matemáticas, Universidad Carlos III de Madrid**, Madrid, Spain  
 2014 **Neuvièmes Journées EDP**, Université de Lille, France  
 2014 **AIMS – Nonlinear PDE Systems**, Universidad Complutense de Madrid, Spain  
 2014 **AIMS – Nonlinear Evolution Equations**, Universidad Complutense de Madrid, Spain  
 2010 **AIMS – Nonlinear Evolutionary PDEs**, Technische Universität Dresden, Germany  
 2008 **Jornada de Ecuaciones en Derivadas Parciales**, Universidad Autónoma de Madrid, Spain  
 2007 **UMI–DMV Joint International Meeting**, University of Perugia, Italy  
 2006 **AIMS – Nonlinear Elliptic and Parabolic Problems**, Université de Poitiers, France  
 2006 **AIMS – Semigroups and Evolution Equations**, Université de Poitiers, France  
 2006 **Euro-Japanese Workshop on Blow-up**, Universidad Complutense de Madrid (El Escorial), Spain  
 2005 **Equadiff 11 – Qualitative properties of solutions to PDEs**, Comenius University, Bratislava, Slovakia  
 2004 **Nonlinear Elliptic and Parabolic Problems: A Special Tribute to the Work of Herbert Amann**, Zurich, Switzerland  
 2002 **Departamento de Matemáticas, Universidad Autónoma de Madrid**, Madrid, Spain  
 1999 **Mini-meeting on Nonlinear Differential Equations**, University of Minnesota, USA  
 1999 **Bulgarian Academy of Sciences**, Sofia, Bulgaria  
 1998 **Delft Meeting on Functional Analysis and Partial Differential Equations**, Delft, The Netherlands  
 1997 **International Conference on Differential Equations and Dynamical Systems**, University of Waterloo, Canada

## Organization of Scientific Conferences

2024 **Two Nonlinear Days**, Perugia  
 2022 **Recent and New Perspectives in Nonlinear Analysis on the Occasion of the Retirement of Patrizia Pucci**, Urbino  
 2012 **Workshop on Nonlinear Partial Differential Equations on the Occasion of the 60th Birthday of Patrizia Pucci**, Perugia  
 2008 **International Workshop on Partial Differential Equations for the 80th Birthday of James Serrin**, Perugia  
 2000 **Nonlinear Analysis**, Perugia

## Main Research Projects

### Coordination

2023–2026 *Advanced Theoretical Aspects in PDEs and Their Applications*, MUR – PRIN 2022, Perugia Unit.  
 2010 *Evolution Problems and Dynamical Boundary Conditions*, GNAMPA.

### Participation

2014–2017 Variational and perturbative aspects in nonlinear differential problems, PRIN 2012.

2011–2013 Variational Methods and Nonlinear PDEs, PRIN 2009.

2007–2009 Quasilinear Elliptic Problems, PRIN 2006.

2004–2006 Quasilinear Elliptic Problems, PRIN 2004.

2000–2002 Quasilinear elliptic problems, PRIN 2000.

1998–2001 Uniqueness and symmetry for quasilinear elliptic equations, PRIN 1998.

## Selected Papers

1. D. Mugnolo and E. Vitillaro. The wave equation with acoustic boundary conditions on non-locally reacting surfaces. *Mem. Amer. Math. Soc.*, 303(1526):vi+102, 2024.
2. E. Vitillaro. Three evolution problems modelling the interaction between acoustic waves and non-locally reacting surfaces. *J. Evol. Equ.*, 24(41):1–51, 2024.
3. E. Vitillaro. On the wave equation with hyperbolic dynamical boundary conditions, interior and boundary damping and supercritical sources. *J. Differential Equations*, 265(10):4873–4941, 2018.
4. E. Vitillaro. On the wave equation with hyperbolic dynamical boundary conditions, interior and boundary damping and source. *Arch. Ration. Mech. Anal.*, 223(3):1183–1237, 2017.
5. J. L. Vázquez and E. Vitillaro. Heat equation with dynamical boundary conditions of reactive–diffusive type. *J. Differential Equations*, 250(4):2143–2161, 2011.
6. J. L. Vázquez and E. Vitillaro. Heat equation with dynamical boundary conditions of reactive type. *Comm. Partial Differential Equations*, 33(4–6):561–612, 2008.
7. E. Vitillaro. On the Laplace equation with non-linear dynamical boundary conditions. *Proc. London Math. Soc.*, 93(2):418–446, 2006.
8. E. Vitillaro. Global existence for the wave equation with nonlinear boundary damping and source terms. *J. Differential Equations*, 186(1):259–298, 2002.
9. E. Vitillaro. Global nonexistence theorems for a class of evolution equations with dissipation and application. *Arch. Ration. Mech. Anal.*, 149:155–182, 1999.
10. A. Ambrosetti, K. Tanaka, and E. Vitillaro. Periodic solutions with prescribed energy for some keplerian  $N$ -body problems. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 11(6):613–632, 1994.

## Editorial Activity

2025–present **Advances in Nonlinear Analysis**, *Editorial Board Member*, De Gruyter

2018–present **Annals of the University of Craiova, Mathematics and Computer Sciences Series**, *Editorial Board Member*

2000–present **Referee**, for dozens of international journals, including: Advances in Differential Equations; Advanced Nonlinear Studies; Asymptotic Analysis; Calculus of Variations and PDE; Communications in PDE; Comptes Rendus Mathématique; Differential and Integral Equations; Journal de Mathématiques Pures et Appliquées; Journal of Differential Equations; Journal of Functional Analysis; Journal of Mathematical Analysis and Applications; Mathematical Models and Methods in Applied Sciences; Mathematische Nachrichten; NoDEA; Nonlinear Analysis; Proceedings RSE-A; SIAM J. Math. Analysis; SIAM J. Control and Optimization; Transactions AMS; ZAMP

1997–2018 **Reviewer**, *Mathematical Reviews (MathSciNet)*

## Teaching Activity – University of Perugia

### Courses Taught

2024–25 **Applied Functional Analysis (in English)**, *Master's Degree in Mathematics*

2022–24 **Functional Analysis**, *Master's Degree in Mathematics*

2017–18 **Mathematical Methods for Economics (in English)**, *Master's Degree in Mathematics*

2016–22 **Applied Functional Analysis**, *Master's Degree in Mathematics*

2011–13 **Elements of Mathematics**, *Bachelor's Degree in Civil Protection*

2007–25 **Mathematical Analysis II**, *Bachelor's Degree in Physics*

2004–05 **Mathematical Analysis B**, *Bachelor's Degree in Physics*

2003–16 **Mathematical Analysis VI**, *Master's Degree in Mathematics*

2002–07 **Mathematical Methods for Economics**, *Master's Degrees in Mathematics and Applied Mathematics*

2001–07 **Mathematical Analysis C**, *Bachelor's Degree in Physics*

2001–02 **Mathematical Analysis I and II**, *Degree in Chemistry*

2000–01 **Advanced Analysis**, *Degree in Mathematics*

1999–2001 **Foundations of Mathematics II**, *Degree in Chemistry*  
1996–99 **Foundations of Mathematics**, *Degree in Natural Sciences*  
1995–96 **Mathematical Analysis II**, *Diploma in Computer Science*  
Exercise Sessions and Tutoring  
1992–97 **Mathematical Analysis I and II**, *Degrees in Mathematics and Physics*, alternate years  
Thesis Supervision  
1994– **Supervisor of 12 Master's Theses**, and 5 Bachelor's Theses, in Mathematics  
Examination Committees  
2001–22 **Permanent Member of Master's Degree Examination Committees in Mathematics**  
1992–present **Permanent Member of Examination Committees for Mathematical Analysis I–II–III–IV–V–VI**  
(also with Arabic numbering), **Functional Analysis**, **Applied Functional Analysis**, and **Applied Functional Analysis (in English)** for the Mathematics Degree Programmes

## Teaching Activity Abroad – University of Tennessee, Knoxville (USA)

2002–03 **Calculus I (in English)**, *Department of Mathematics*, two sections

## Academic Service – University of Perugia

2019–present **Institutional Research and VQR Committee**, *Department of Mathematics and Computer Science*, Member  
2017–2019 **Joint Teaching Committee**, *Department of Mathematics and Computer Science*, Coordinator  
2016–2017 **Joint Teaching Committee**, *Department of Mathematics and Computer Science*, Member

## Appendix

### Participation in Other Research Projects

2023 Partial differential equations of mixed type or depending on vector fields, GNAMPA.  
2017 Nonlinear differential equations, GNAMPA.  
2004–2006 International CNR/MTA Italy–Hungary Project.  
2003 Nonlinear differential equations, GNAMPA.  
2002–2004 Quasilinear Elliptic Problems, PRIN 2002.  
2002 Nonlinear elliptic and parabolic differential equations, GNAMPA.  
1999–2002 Nonlinear Analysis, University Research Project.  
1999 Semilinear elliptic eigenvalue problems, DAAD Vigoni.  
1998 Models and Methods for Mathematics and Engineering, CNR.  
1998 Semilinear elliptic eigenvalue problems, DAAD Vigoni.  
1998 Nonlinear Analysis, University Research Project.  
1997 Models and Methods for Mathematics and Engineering, CNR.  
1997 Nonlinear Analysis and Systems of Differential Equations, MURST.  
1996 Nonlinear Analysis and Systems of Differential Equations, MURST.  
1995 Nonlinear Analysis and Systems of Differential Equations, MURST.

### Other Invited Lectures at International Conferences

2024 **AMS-UMI International Joint Meeting**, *PDEs Applications to Nonlinear Phenomena*, Palermo  
2024 **International Conference on Elliptic and Parabolic Problems**, *Advanced theoretical aspects in PDEs and their applications*, Gaeta  
2019 **BiUrb – Recent Advances in Variational Methods**, University of Urbino “Carlo Bo”  
2017 **Two-day Meeting on PDEs**, University of Perugia  
2015 **New Advances in PDEs**, University of Parma  
2011 **Evolution Equations and Operator Semigroups**, University of Bari “Aldo Moro”  
2011 **Nonlinear Partial Differential Equations**, Venice  
2010 **PDEs, Semigroup Theory and Inverse Problems**, University of Bologna “Alma Mater Studiorum”  
2005 **Variational Methods and Nonlinear Differential Equations**, Sapienza University of Rome  
2003 **Nonlinear PDEs and Geometrical Problems**, University of Trieste (Grado)

2002 **Stationary and Evolution Problems**, University of Trieste (Grado)

2002 **Symposium on Partial Differential Equations**, University of Perugia

2000 **Workshop on Nonlinear Evolution Problems**, University of L'Aquila

1999 **Workshop Blow-up for and Global Existence of Solutions for Parabolic and Hyperbolic Problems**, University of Trieste

1999 **Meeting on Ordinary Differential Equations and Applications**, University of Bressanone

1999 **Evolution Equations and Applications**, Scuola Normale Superiore, Cortona

1996 **Seventh International Colloquium on Differential Equations**, University of Plovdiv "Paisii Hilendarski", Bulgaria

1994 **School and Workshop on Variational and Local Methods in the Study of Hamiltonian Systems**, ICTP, Trieste

**Other Invited Lectures at National Conferences**

2021 **Workshop on PDEs and Applications**, Perugia

2020 **Workshop on Nonlinear PDEs and Applications on the occasion of the retirement of Professor Maria Cesolina Salvatori**, Perugia

2018 **Two Nonlinear Days in Perugia on the occasion of Patrizia Pucci's 65th birthday**, Perugia

2017 **XVII Italian Meeting on Hyperbolic Equations**, Pavia

2006 **IV Annual Conference of the Department of Mathematics and Computer Science**, Perugia

2004 **Iperpisa 2004 – XI National Meeting on Hyperbolic Equations**, Pisa

2003 **XVII UMI Congress**, Milan

2000 **Nonlinear Analysis**, Perugia

2000 **VIII National Meeting on Hyperbolic Equations**, Brescia

1999 **SISSA Days of Nonlinear Analysis**, S.I.S.S.A., Trieste

1999 **XVI UMI Congress**, Naples

1997 **V National Meeting on Hyperbolic Equations**, L'Aquila

1995 **XV UMI Congress, Nonlinear Analysis**, Padua

1994 **Hamiltonian Systems, Partial Differential Equations, Fluid Dynamics, Diffusion Processes**, L'Aquila

1993 **National Project on Differential Equations Conference**, Florence

**Other Invited Lectures at Italian Universities**

2007 **Department of Mathematics, University of Turin**, Turin

1996 **Department of Mathematics, University of Parma**, Parma

**Selected Participation in Scientific Conferences**

2019 **Variational Methods with Applications to Mathematical Physics and Geometry**, Venice

2018 **Variational Methods in Analysis, Geometry and Physics**, Scuola Normale Superiore, Pisa

2017 **Nonlinear Diffusion and Free Boundary Problems – 70th Anniversary of J. L. Vázquez**, UAM Madrid, Spain

2014 **Two-Days Meeting in Honor of Antonio Ambrosetti**, Venice

2004 **Fifth European Conference on Elliptic and Parabolic Problems**, Gaeta

2001 **Linear and Nonlinear Hyperbolic Equations**, Grado

1998 **First National Conference – Current Problems in Nonlinear Analysis**, Acicastello (Catania)

1997 **Conference in Memory of Ennio De Giorgi**, Scuola Normale Superiore, Pisa

1996 **Workshop on Differential Equations and Calculus of Variations**, Department of Mathematics, Pisa

1996 **Recent Trends in Elliptic Equations and Related Topics**, Santander, Spain

1993 **Second Meeting on Nonlinear Analysis – Workshop on Hamiltonian Systems**, Scuola Normale Superiore, Pisa

1992 **Conference in Honor of James B. Serrin**, Ferrara

1992 **Second International Conference on Partial Differential Equations**, Como

## Complete List of Publications

- [1] E Vitillaro. Acoustic waves interacting with non-locally reacting surfaces in a Lagrangian framework. *Math. Nachr.*, 298(12):3855–3892, 2025.
- [2] E. Vitillaro. On the eigenvalue problem for a bulk/surface elliptic system. *Commun. Math. Anal. Appl.*, 4(3):307–335, 2025.
- [3] D. Mugnolo and E. Vitillaro. The wave equation with acoustic boundary conditions on non-locally reacting surfaces. *Mem. Amer. Math. Soc.*, 303(1526):vi+102, 2024.
- [4] E. Vitillaro. Three evolution problems modelling the interaction between acoustic waves and non-locally reacting surfaces. *J. Evol. Equ.*, 24(41):1–51, 2024.
- [5] N. Cangiotti, M. Caponi, A. Maione, and E. Vitillaro. Schrödinger–Maxwell equations driven by mixed local–nonlocal operators. *Fract. Calc. Appl. Anal.*, 27:677–705, 2024.
- [6] E. Vitillaro. Nontrivial solutions for the Laplace equation with a nonlinear Goldstein–Wentzell boundary condition. *Commun. Anal. Mech.*, 15(4):811–830, 2023.
- [7] N. Cangiotti, M. Caponi, A. Maione, and E. Vitillaro. Klein–Gordon–Maxwell equations driven by mixed local–nonlocal operators. *Milan J. Math.*, 91:375–403, 2023.
- [8] A. Barbieri and E. Vitillaro. The damped wave equation with acoustic boundary conditions and non-locally reacting surfaces. *Semigroup Forum*, 105(3):646–679, 2022.
- [9] E. Vitillaro. Blow-up for the wave equation with hyperbolic dynamical boundary conditions, interior and boundary nonlinear damping and sources. *Discrete Contin. Dyn. Syst. Ser. S*, 14(12):4575–4608, 2021.
- [10] P. Pucci and E. Vitillaro. Approximation by regular functions in Sobolev spaces arising from doubly elliptic problems. *Boll. Unione Mat. Ital.*, 13(4):487–494, 2020.
- [11] E. Vitillaro. On the wave equation with hyperbolic dynamical boundary conditions, interior and boundary damping and supercritical sources. *J. Differential Equations*, 265(10):4873–4941, 2018.
- [12] E. Vitillaro. On the wave equation with hyperbolic dynamical boundary conditions, interior and boundary damping and source. *Arch. Ration. Mech. Anal.*, 223(3):1183–1237, 2017.
- [13] A. Fiscella and E. Vitillaro. Blow-up for the wave equation with nonlinear source and boundary damping terms. *Proc. Roy. Soc. Edinburgh Sect. A*, 145(4):759–778, 2015.
- [14] E. Vitillaro. Wave Operators – Part II. In *Selected Papers of James Serrin*, pages 283–285. Birkhäuser, Basel, 2014.
- [15] E. Vitillaro. Strong solutions for the wave equation with a kinetic boundary condition. In *Recent trends in nonlinear partial differential equations. I. Evolution problems*, volume 594 of *Contemp. Math.*, pages 295–307. Amer. Math. Soc., Providence, RI, 2013.
- [16] A. Fiscella and E. Vitillaro. Local Hadamard well-posedness and blow-up for reaction–diffusion equations with non-linear dynamical boundary conditions. *Discrete Contin. Dyn. Syst.*, 33(11–12):5015–5047, 2013.
- [17] J. L. Vázquez and E. Vitillaro. Heat equation with dynamical boundary conditions of reactive–diffusive type. *J. Differential Equations*, 250(4):2143–2161, 2011.
- [18] J. L. Vázquez and E. Vitillaro. On the Laplace equation with dynamical boundary conditions of reactive–diffusive type. *J. Math. Anal. Appl.*, 354(2):674–688, 2009.
- [19] J. L. Vázquez and E. Vitillaro. Wave equation with second-order non-standard dynamical boundary conditions. *Math. Models Methods Appl. Sci.*, 18(12):2019–2054, 2008.
- [20] J. L. Vázquez and E. Vitillaro. Heat equation with dynamical boundary conditions of reactive type. *Comm. Partial Differential Equations*, 33(4–6):561–612, 2008.
- [21] J. L. Vázquez and E. Vitillaro. Heat equation with dynamical boundary conditions of locally reactive type. *Semigroup Forum*, 74(1):1–40, 2007.

- [22] E. Vitillaro. On the Laplace equation with non-linear dynamical boundary conditions. *Proc. London Math. Soc.*, 93(2):418–446, 2006.
- [23] G. Todorova and E. Vitillaro. Blow-up for nonlinear dissipative wave equations in  $\mathbb{R}^n$ . *J. Math. Anal. Appl.*, 303(1):242–257, 2005.
- [24] E. Vitillaro. Global existence for the heat equation with nonlinear dynamical boundary condition. *Proc. Roy. Soc. Edinburgh Sect. A*, 135:1–33, 2005.
- [25] J. Serrin, G. Todorova, and E. Vitillaro. Existence for a nonlinear wave equation with damping and source terms. *Differential Integral Equations*, 16(1):13–50, 2003.
- [26] E. Vitillaro. Global existence for the wave equation with nonlinear boundary damping and source terms. *J. Differential Equations*, 186(1):259–298, 2002.
- [27] E. Vitillaro. A potential well theory for the wave equation with nonlinear source and boundary damping terms. *Glasg. Math. J.*, 44(3):375–395, 2002.
- [28] E. Vitillaro. Some new results on global nonexistence and blow-up for evolution problems with positive initial energy. *Rend. Istit. Mat. Univ. Trieste*, 31(suppl. 2):245–275, 2000.
- [29] E. Vitillaro. Blow-up for the porous media equation with source term and positive initial energy. *J. Math. Anal. Appl.*, 247:183–197, 2000.
- [30] E. Vitillaro. Global nonexistence theorems for a class of evolution equations with dissipation and application. *Arch. Ration. Mech. Anal.*, 149:155–182, 1999.
- [31] M. C. Salvatori and E. Vitillaro. Decay properties for some lagrangian systems with dissipative terms and applications. *Period. Math. Hungar.*, 38(1–2):63–85, 1999.
- [32] M. C. Salvatori and E. Vitillaro. Decay and stability for some nonlinear quasi-variational systems. In *Atti Sem. Mat. Fis. Univ. Modena*, volume 46, pages 937–949, 1998.
- [33] M. C. Rossi and E. Vitillaro. Asymptotic stability for damped strongly non-autonomous systems with applications to holonomic mechanical systems and nonlinear networks. *NoDEA Nonlinear Differential Equations Appl.*, 5:25–48, 1998.
- [34] A. Boccuto and E. Vitillaro. Asymptotic stability for abstract evolution equations and applications to partial differential systems. *Rend. Circ. Mat. Palermo*, 47:25–48, 1998.
- [35] M. C. Salvatori and E. Vitillaro. Decay for the solutions of nonlinear abstract damped evolution equations with applications to partial and ordinary differential systems. *Differential Integral Equations*, 11:223–262, 1998.
- [36] E. Vitillaro. Decay for some second order nonlinear systems. In D. Bainov, editor, *Proceedings of the Seventh International Colloquium on Differential Equations*, pages 401–412, The Netherlands, 1997. VSP.
- [37] M. C. Salvatori and E. Vitillaro. Asymptotic behavior near the singularity of a second order nonlinear differential equation. *Asymptotic Analysis*, 12:55–76, 1996.
- [38] E. Vitillaro. Non-collision periodic solutions of fixed energy for a symmetric  $N$ -body type problem. In *Variational and local methods in the study of Hamiltonian systems*, pages 202–211. World Scientific, River Edge, NJ, 1995.
- [39] E. Vitillaro. Closed orbits of prescribed mean potential energy for a class of  $N$ -body type problems. *Dynam. Systems Appl.*, 4(2):225–235, 1995.
- [40] A. Ambrosetti, K. Tanaka, and E. Vitillaro. Periodic solutions with prescribed energy for some keplerian  $N$ -body problems. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 11(6):613–632, 1994.
- [41] E. Vitillaro. Periodic solutions for singular conservative systems. *J. Math. Anal. Appl.*, 185(2):403–429, 1994.
- [42] E. Vitillaro. Misure invarianti per trasformazioni  $C^2$  a tratti ed espansive di  $[0, 1]^n$  in sé. *Atti Sem. Mat. Fis. Univ. Modena*, 40(1):215–228, 1992.