

**CURRICULUM VITÆ  
OF  
ANNA MARIA CANDELA**

**Personal Information**



📍 Dipartimento di Matematica  
Università degli Studi di Bari Aldo Moro  
via E. Orabona, 4  
70125 Bari (Italy)

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**Current Position:**

21.10.2022 - present

**Member of the Academic Board (*Senato Accademico*)**

Università degli Studi di Bari Aldo Moro (Bari, Italy)

3.10.2022 - present

**Head of the Department of Mathematics**

Università degli Studi di Bari Aldo Moro (Bari, Italy)

3.12.2018 - present

**Full Professor**

Dipartimento di Matematica

Università degli Studi di Bari Aldo Moro (Bari, Italy)

• Sector: Mathematical Analysis

**WORK EXPERIENCE**

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October - December 2021

**Coordinator** of the GEP Team for writing the *Gender Equality Plan 2022-2024* of *Università degli Studi di Bari Aldo Moro*. The *Gender Equality Plan 2022-2024* was signed by the Rector on 23.12.2021.

May - December 2021

**Member**, and **Coordinator** on behalf of the Rector, of the working group on *Bilancio di Genere 2021* (Gender Report 2021) of *Università degli Studi di Bari Aldo Moro*. The *Bilancio di Genere 2021* was signed by the Rector on 23.12.2021.

1.10.2019 - 12.9.2022

**Vice Rector (*Pro Rettore Vicario*)**

Università degli Studi di Bari Aldo Moro (Bari, Italy)

15.7.2004 - 2.12.2018

**Associate Professor**

Dipartimento di Matematica

Università degli Studi di Bari Aldo Moro (Bari, Italy)

• Sector: Mathematical Analysis

5.8.1992 - 14.7.2004

**Assistant Professor**

Facoltà di Scienze MM FF NN

Università degli Studi di Bari Aldo Moro (Bari, Italy)

• Sector: Mathematical Analysis

**EDUCATION, TRAINING AND  
ABILITATION**

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30.12.2013

Italian National Scientific Abilitation as Full Professor in Mathematical Analysis

1.11.1990 - 31.12.1994

Ph.D. Degree in Mathematics

Università degli Studi di Pisa (Pisa, Italy)

• Dissertation Title: "*Molteplicità di soluzioni positive di problemi ellittici non lineari*"

- proprietà topologiche del dominio*" (25.1.1996)
- 1.5.1990 - 31.10.1990 Postgraduate scholarship of the *Consiglio Nazionale delle Ricerche* Scuola Normale Superiore (Pisa, Italy)
- a.y. 1985/86 - a.y. 1988/89 Degree in Mathematics  
Università degli Studi di Bari Aldo Moro (Bari, Italy)
- Dissertation Title: "*Soluzioni periodiche di assegnata energia di sistemi Hamiltoniani*" (20.11.1989)
- s.y. 1980/81 - s.y. 1984/85 High school diploma at *Liceo Scientifico* (scientific oriented high school)  
Liceo Scientifico in Putignano (Bari, Italy)

## PERSONAL SKILLS

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- Mother tongue Italian
- Other languages English (proficient user)  
French (basic user)  
Spanish (basic user)
- Job-related skills
- Organizational skills
  - Relational skills and ability to collaborate with colleagues
  - Willingness to learn
  - Communication skills
  - Attention to detail
- Digital skills
- Microsoft Office 365
  - Latex
  - Wolfram Mathematica
  - Canva

## PROJECTS (active)

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- 20.8.2019 - 19.8.2023 **Local coordinator** of the granted national research MIUR-PRIN project 2017JPCAPN\_05 "*Qualitative and quantitative aspects of nonlinear PDEs*" (P.I. B. Sciunzi)
- 1.9.2021 - 31.8.2025 **co-investigator** of the granted Spanish project "*Geometría semi-Riemanniana y flujos geométricos en Física-Matemática*", PID2020-116126GB-I00, Ministerio de Ciencia e Innovación (P.I. M. Sánchez Caja and F. Martín Serrano)
- 27.9.2022 - 14.10.2023 **co-investigator** of the granted UniBa project "*STEPS: STEerability and controllability of PDES in Agricultural and Physical models*", Horizon Europe Seeds S51 (P.I. A. Salvatore)

## EDITORIAL ACTIVITY

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- 2013 - present **Assistant Managing Editor** of "*Mediterranean Journal of Mathematics*" (Birkhäuser, Editor-in-Chief Francesco Altomare)
- 2010 – present **Member of the Editor Board** of "*Mediterranean Journal of Mathematics*" (Birkhäuser, Editor-in-Chief Francesco Altomare)
- 2014 – 2022 **Associate Editor** of "*Boundary Value Problems*" (Springer, Editor-in-Chief Kanishka Perera, Vicentiu D. Radulescu, Xianhua Tang)

- 2022 – present **Guest Editor** of the *Special Issue on “Partial Differential Equations and Semigroups in Applied Analysis”* (A.M. Candela, G. Fragnelli, G.R. Goldstein, S. Lucente, A. Rhandi & S. Romanelli Eds), *Discrete Contin. Dyn. Syst. Ser. S* (to appear)
- 2022 – 2023 **Co-editor** of the book *“Recent Advances in Mathematical Analysis”. Celebrating the 70th Anniversary of Francesco Altomare* (A.M. Candela, M. Cappelletti Montano & E. Mangino Eds), *Trends Math.*, Birkhäuser, 2023
- 2021 – 2022 **Guest Editor** of the *Special Issue on “Analysis Motivated by the Applications. In memory of Rosa Maria Mininni”* (A.M. Candela, G.R. Goldstein, J. Goldstein & S. Romanelli Eds), *Discrete Contin. Dyn. Syst. Ser. S* **15** (12) (2022)
- 2012 – 2013 **Guest Editor** of the *Special Issue on “Evolution Equations and Mathematical Models in the Applied Sciences”* (S. Romanelli, A.M. Candela, R.M. Mininni, A. Pugliese & M. De Giosa Eds), *Discrete Contin. Dyn. Syst. Ser. S* **6** (3) (2013)
- 2021 – 2013 **Co-editor** of the book *“Il Castello Aragonese di Taranto in 3D nell’evoluzione del paesaggio naturale”* (G. Mastronuzzi, L. Boccardi, A.M. Candela, C. Colella, G. Curci, F. Giletti, M. Milella, C. Pignatelli, A. Piscitelli, F. Ricci & P. Sansò Eds), DIGILABS s.a.s., Bari, 2013

#### PHD ADVISOR

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- 1.10.2019 – present Caterina Sportelli (XXXV Cycle, PhD Research Program in Computer Science and Mathematics, Università degli Studi di Bari Aldo Moro)
- November 2005 - April 2007 Valeria Luisi (XIX Cycle, PhD Research Program in Mathematics, Università degli Studi di Bari Aldo Moro)  
**Dissertation Title:** *“Some results about Fermat Principle and geodesic completeness in Lorentzian manifolds”* (18.5.2007)

#### TEACHING

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- a.y. 2013/2014 – present *Analisi Superiore 2* (Advanced Mathematical Analysis), second level degree in Mathematics
- a.y. 2021/2022 – present *Analisi Matematica n.3* (Mathematical Analysis no. 3), first level degree in Mathematics,
- a.y. 2021/2022 – present *Analisi Matematica n.4* (Mathematical Analysis no. 4), first level degree in Mathematics,
- a.y. 2020/21 *Finsler Geometry and Spacetimes* (in cooperation with Miguel Angel Javaloyes Victoria), School of the Ph.D. in Computer Science and Mathematics

#### INSTITUTIONAL & ACADEMIC RESPONSIBILITIES

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- 2013 – present **Member** of the **Boarding School** of the **Ph.D. in Computer Science and Mathematics** (UniBa)
- 22.12.2020 – present **Scientific Director** of the Framework Agreement for the Scientific Cooperation between *Università degli Studi di Bari Aldo Moro* and *Fondazione E. Amaldi*

#### SCIENTIFIC ACTIVITY

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- Papers **84 research papers** already published or in press on international journals or books (databases *MathSciNet* **MR Author ID 321613**, *Web of Science* **Researcher ID I-6545-2012**, *Scopus* **Author ID 7005848392**)
- Talks **35 invited talks** at conferences both in Italy and abroad, **18 invited talks** at universities or research centers both in Italy and abroad, **17 short communications** both at national and international workshops
- Visiting (short period) *Universidad de Granada* (Granada, Spain), *International Erwin Schrödinger Institute for Mathematical Physics* (Wien, Austria), *Peking University* (Beijing, China), *Chern Institute of*

*Mathematics (Nankai University, Tianjin, China), Università degli Studi del Salento (Lecce, Italy), Università degli Studi di Perugia (Perugia, Italy), Humboldt-Universität zu Berlin (Berlin, Germany), Universidad de Málaga (Málaga, Spain), Universidad de Sevilla (Sevilla, Spain), Università degli Studi di Milano - Bicocca (Milano, Italy), Università degli Studi di Roma "Tor Vergata" (Roma, Italy), Università degli Studi della Basilicata (Potenza, Italy), Università degli Studi di Urbino Carlo Bo (Urbino, Italy)*

Workshop Committee	<b>Member</b> of the <b>Scientific</b> and/or the <b>Organizing Committee</b> of <b>31</b> workshops
Research field	Variational and Topological Methods applied to the study of Nonlinear Differential Equations
Research Topics	Geodesics and trajectories in semi-Riemannian manifolds; elliptic equations in open bounded domains of $\mathbb{R}^N$ with either homogeneous or nonhomogeneous boundary conditions; elliptic equations in unbounded domains of $\mathbb{R}^N$ ; Schrödinger equation and its generalizations; quasilinear elliptic problems of p-Laplacian type both in bounded and unbounded domains; existence and multiplicity theorems for unbounded functionals in Banach space

## GENDER EQUALITY ACTIVITY

7.10.2022 – present	<b>Contact person</b> , on behalf of <i>Università degli Studi di Bari Aldo Moro</i> together with Prof. Giuseppe Pirlo, for the management and implementation of the activities envisaged by the Memorandum of Understanding “ <i>No Women, No Panel</i> ” with <i>RAI</i> and <i>Comune di Bari</i>
30.11.2021 – present	<b>Coordinator</b> , on behalf of <i>Università degli Studi di Bari Aldo Moro</i> , of the project <i>STEAMiamoci</i> , launched by <i>Assolombarda</i> , which aims to establish a synergistic network of national and international companies, universities, bodies and associations, engaged in projects to enhance female talents in STEM professions
Talk	<ul style="list-style-type: none"> <li>• <b>Gender Equality Plan</b>, 2-hour lecture, PhD Seminars a.y. 2021/22 “<i>Promozione della ricerca/Project Management</i>”, open to all the PhD students UniBa (23.2.2022)</li> <li>• <b>Presentazione del Bilancio di Genere 2021</b>, Giornata della Trasparenza “<i>Divers* e Uguali</i>” of <i>Università degli Studi di Bari Aldo Moro</i> (7.3.2022)</li> <li>• <b>Gender Equality: significati e politiche</b>, Corso Competenze Trasversali a.a. 2021/22 “<i>Agenda 2030: Politiche, Processi, Partecipazione</i>” (22.4.2022)</li> </ul>

## ADDITIONAL INFORMATION

30.4.2021 – present	<p><b>Advisor</b> of some degree thesis of students in <i>Mathematics</i> both of first level and of second level degree and of some first level degree thesis in <i>Science and Technical Nautical Management</i>.</p> <p><b>Member</b> of the some <b>Selection Boards</b> for positions as Associate Professor or Researcher in Italian universities</p> <p>Intense activity in the popularization of Mathematics at different levels, mainly giving lectures for high school students, undergraduates in scientific faculties and older people attending universities of the third age</p> <p><b>Referee</b> of some international journals in Mathematics</p> <p><i>Socio Ordinario della Classe di Scienze Fisiche, Mediche, Naturali</i> of <i>Accademia Pugliese delle Scienze</i></p>
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Bari, 30.12.2022

Anna Maria Candela  
PUBLICATIONS

*Article*

- [1] R. Bartolo, A.M. Candela and A. Salvatore, Multiple solutions for perturbed quasilinear elliptic problems, *Topol. Meth. Nonlin. Anal.* (to appear).
- [2] A.M. Candela, K. Perera and C. Sportelli, On a class of supercritical N-Laplacian problems, *Nonlinear Anal. Real World Appl.* **71** (2023), Article 103817 (in press). DOI:10.1016/j.nonrwa.2022.103817
- [3] A.M. Candela and C. Sportelli, Soliton solutions for quasilinear modified Schrödinger equations in applied sciences, *Discrete Contin. Dyn. Syst. Ser. S* **15** (12) (2022), pp. 3557-3570. DOI:10.3934/dcdss.2022121
- [4] A.M. Candela, A. Salvatore and C. Sportelli, Bounded solutions for quasilinear modified Schrödinger equations, *Calc. Var. Partial Differential Equations* **61** (6) (2022), Article 220. DOI:10.1007/s00526-022-02328-y
- [5] A.M. Candela and C. Sportelli, Multiple solutions for coupled gradient-type quasilinear elliptic systems with supercritical growth, *Ann. Mat. Pura Appl.* **201** (5) (2022), pp. 2341–2369. DOI:10.1007/s10231-022-01202-0
- [6] A.M. Candela and C. Sportelli, Nontrivial solutions for a class of gradient-type quasilinear elliptic systems, *Topol. Methods Nonlinear Anal.* **59** (2022), pp. 957–986. DOI:10.12775/TMNA.2021.047
- [7] A.M. Candela, A. Salvatore and C. Sportelli, Existence and multiplicity results for a class of coupled quasilinear elliptic systems of gradient type, *Adv. Nonlinear Stud.* **21** (2021), pp. 461-488. DOI:10.1515/ans-2021-2121
- [8] A.M. Candela, G. Fragnelli and D. Mugnai, Quasilinear problems without the Ambrosetti-Rabinowitz condition, *Minimax Theory Appl.* **6** (2021), pp. 239-250.
- [9] A.M. Candela and A. Salvatore, Existence of minimizers for some quasilinear elliptic problems, *Discrete Contin. Dyn. Syst. Ser. S* **13** (12) (2020), pp. 3335-3345. DOI:10.3934/dcdss.2020241
- [10] A.M. Candela and A. Salvatore, Positive solutions for a generalized p-Laplacian type problem, *Discrete Contin. Dyn. Syst. Ser. S* **13** (2020), pp. 1935-1945. DOI:10.3934/dcdss.2020151
- [11] A.M. Candela and A. Salvatore, Existence of radial bounded solutions for some quasilinear elliptic equations in  $\mathbf{R}^N$ , *Nonlinear Analysis* **191** (2020), Article 111625 (26 pages). DOI:10.1016/j.na.2019.111625
- [12] A.M. Candela, G. Palmieri and A. Salvatore, Multiple solutions for some symmetric supercritical problems, *Commun. Contemp. Math.* **22** (2020), Article 1950075 (20 pages). DOI:10.1142/S0219199719500755
- [13] A.M. Candela and A. Salvatore, Infinitely many solutions for some nonlinear supercritical problems with break of symmetry, *Opuscula Math.* **39** (2019), pp. 175-194. DOI:10.7494/OpMath.2019.39.2.175
- [14] A.M. Candela, G. Palmieri and A. Salvatore, Infinitely many solutions for quasilinear elliptic equations with lack of symmetry, *Nonlinear Anal.* **172** (2018), pp. 141-162. DOI:10.1016/j.na.2018.02.011
- [15] A.M. Candela and N. Waterstraat, Bifurcation of critical points along gap-continuous families of subspaces, *J. Fixed Point Theory Appl.* **19** (2017), pp. 3053-3068. DOI:10.1007/s11784-017-0468-3
- [16] A.M. Candela and G. Palmieri, A multiplicity result for a generalized p-Laplacian type problem with asymptotically p-linear terms, *Calc. Var. Partial Differential Equations* (2017), **56**:72 (39 pages). DOI:10.1007/s00526-017-1170-4
- [17] R. Bartolo, A.M. Candela and J.L. Flores, Connectivity by geodesics on globally hyperbolic spacetimes with a lightlike Killing vector field, *Rev. Mat. Iberoam.* **33** (2017), pp. 1-28. DOI:10.4171/rmi/926



- [18] R. Bartolo, A.M. Candela and A. Salvatore, On a class of superlinear  $(p,q)$ -Laplacian type equations on  $\mathbb{R}^N$ , *J. Math. Anal. Appl.* **438** (2016), pp. 29-41. DOI:10.1016/j.jmaa.2016.01.049
- [19] R. Bartolo, A.M. Candela and A. Salvatore, Multiplicity results for a class of asymptotically  $p$ -linear equations on  $\mathbb{R}^N$ , *Commun. Contemp. Math.* **18** (2016), 1550031 (24 pages). DOI:10.1142/S0219199715500315
- [20] R. Bartolo, A.M. Candela and J.L. Flores, Connectivity by geodesics in open subsets of globally hyperbolic spacetimes, *Int. J. Geom. Methods Mod. Phys.* **12** (2015) 1560009 (9 pages). DOI:10.1142/S0219887815600099
- [21] A.M. Candela, G. Palmieri and K. Perera, Multiple solutions for  $p$ -Laplacian type problems with asymptotically  $p$ -linear terms via a cohomological index theory, *J. Differential Equations* **259** (2015), pp. 235-263. DOI:10.1016/j.jde.2015.02.007
- [22] R. Bartolo, A.M. Candela and A. Salvatore, Perturbed asymptotically linear problems, *Ann. Mat. Pura Appl.* **193** (2014), pp. 89-101. DOI:10.1007/s10231-012-0267-9
- [23] R. Bartolo, A.M. Candela and A. Salvatore,  $p$ -Laplacian problems with nonlinearities interacting with the spectrum, *NoDEA Nonlinear Differential Equations Appl.* **20** (2013), pp. 1701-1721. DOI:10.1007/s00030-013-0226-1
- [24] A.M. Candela, A. Romero and M. Sánchez, Completeness of trajectories of relativistic particles under stationary magnetic fields, *Int. J. Geom. Methods Mod. Phys.* **10** (2013), 1360007 (8 pages). DOI:10.1142/S0219887813600074
- [25] A.M. Candela, A. Romero and M. Sánchez, Completeness of the trajectories of particles coupled to a general force field, *Arch. Ration. Mech. Anal.* **208** (2013), pp. 255-274. DOI:10.1007/s00205-012-0596-2
- [26] A.M. Candela and G. Palmieri, Multiplicity results for some quasilinear equations in lack of symmetry, *Adv. Nonlinear Anal.* **1** (2012), pp. 121-157. DOI:10.1515/anona-2011-0005
- [27] R. Bartolo, A.M. Candela and J.L. Flores, A note on geodesic connectedness in Gödel type spacetimes, *Differential Geom. Appl.* **29** (2011), pp. 779-786. DOI:10.1016/j.difgeo.2011.08.006
- [28] A.M. Candela and A. Salvatore, Elliptic systems in unbounded domains, *Complex Var. Elliptic Equ.* **56** (2011), pp. 1143-1153. DOI:10.1080/17476933.2010.487213
- [29] R. Bartolo, A.M. Candela and E. Caponio, Normal geodesics connecting two submanifolds in a stationary spacetime, *Adv. Nonlinear Stud.* **10** (2010), pp. 851-866.
- [30] A.M. Candela, E. Medeiros, G. Palmieri and K. Perera, Weak solutions of quasilinear elliptic systems via a cohomological index, *Topol. Methods Nonlinear Anal.* **36** (2010), pp. 1-18.
- [31] A.M. Candela, G. Palmieri and K. Perera, Nontrivial solutions of some quasilinear problems via a cohomological local splitting, *Nonlinear Anal.* **73** (2010), pp. 2001-2009. DOI:10.1016/j.na.2010.05.029
- [32] A.M. Candela, G. Cerami and G. Palmieri, On some nonhomogeneous elliptic problems in unbounded domains, *Adv. Nonlinear Stud.* **9** (2009), pp. 625-637.
- [33] A.M. Candela and G. Palmieri, Infinitely many solutions of some nonlinear variational equations, *Calc. Var. Partial Differential Equations* **34** (2009), pp. 495-530. DOI:10.1007/s00526-008-0193-2
- [34] R. Bartolo and A.M. Candela, Normal trajectories in stationary spacetimes under the action of an external field with quadratic asymptotic behavior, *Extracta Math.* **23** (2008), pp. 243-253.
- [35] A.M. Candela, J.L. Flores and M. Sánchez, Global hyperbolicity and Palais-Smale condition for action functionals in stationary spacetimes, *Adv. Math.* **218** (2008), pp. 515-536. DOI:10.1016/j.aim.2008.01.004
- [36] A.M. Candela and A. Salvatore, Multiple solitary waves for non-homogeneous Schrödinger-Maxwell equations, *Mediterr. J. Math.* **3** (2006), pp. 483-493. DOI:10.1007/s00009-006-0092-8
- [37] R. Bartolo, A.M. Candela and J.L. Flores, Geodesic connectedness of stationary spacetimes with optimal growth, *J. Geom. Phys.* **56** (2006), pp. 2025-2038. DOI:10.1016/j.geomphys.2005.11.005

- [38] A.M. Candela and G. Palmieri, Multiple solutions of some nonlinear variational problems, *Adv. Nonlinear Stud.* **6** (2006), pp. 269-286.
- [39] A.M. Candela, G. Palmieri and A. Salvatore, Radial solutions of semilinear elliptic equations with broken symmetry, *Topol. Methods Nonlinear Anal.* **27** (2006), pp. 117-132.
- [40] R. Bartolo, A.M. Candela, J.L. Flores and A. Salvatore, Periodic orbits on Riemannian manifolds under the action of an at most quadratic potential, *Differential Geom. Appl.* **24** (2006), pp. 108-118.
- [41] A.M. Candela and A. Salvatore, Periodic solutions for dynamical systems on non-complete Riemannian manifolds, *Nonlinear Anal.* **63** (2005), pp. e379-e388.
- [42] A.M. Candela, Normal geodesics in static spacetimes with critical asymptotic behavior, *Nonlinear Anal.* **63** (2005), pp. e357-e367.
- [43] R. Bartolo and A.M. Candela, Quadratic Bolza problems in static spacetimes with critical asymptotic behavior, *Mediterr. J. Math.* **2** (2005), pp. 459-470.
- [44] A.M. Candela and M. Squassina, On a class of elliptic equations for the  $n$ -Laplacian in  $\mathbb{R}^n$  with a one-sided exponential growth, *Serdica Math. J.* **29** (2003), pp. 315-336.
- [45] R. Bartolo, A.M. Candela, J.L. Flores and M. Sánchez, Geodesics in static Lorentzian manifolds with critical quadratic behavior, *Adv. Nonlinear Stud.* **3** (2003), pp. 471-494.
- [46] A.M. Candela, J.L. Flores and M. Sánchez, A quadratic Bolza-type problem in a Riemannian manifold, *J. Differential Equations* **193** (2003), pp. 196-211.
- [47] A.M. Candela, J.L. Flores and M. Sánchez, On General Plane Fronted Waves. Geodesics, *Gen. Relativity Gravitation* **35** (2003), pp. 631-649.
- [48] A.M. Candela and A. Salvatore, Some applications of a perturbative method to elliptic equations with non-homogeneous boundary conditions, *Nonlinear Anal.* **53** (2003), pp. 299-317.
- [49] A.M. Candela, A. Salvatore and M. Squassina, Semilinear elliptic systems with lack of symmetry, *Dynam. Contin. Discrete Impuls. Systems A* **10** (2003), pp. 181-192.
- [50] A.M. Candela, A. Salvatore and M. Sánchez, Periodic trajectories in Gödel type Space-Times, *Nonlinear Anal.* **51** (2002), pp. 607-631.
- [51] A.M. Candela and A. Salvatore, Normal geodesics in stationary Lorentzian manifolds with unbounded coefficients, *J. Geom. Phys.* **44** (2002), pp. 171-195.
- [52] A.M. Candela, A. Salvatore and M. Squassina, Multiple solutions for semilinear elliptic systems with non-homogeneous boundary conditions, *Nonlinear Anal.* **51** (2002), pp. 249-270.
- [53] A.M. Candela and M. Sánchez, Existence of geodesics in Gödel type Space-Times, *Nonlinear Anal.* **47** (2001), pp. 1581-1592.
- [54] A.M. Candela and A. Salvatore, Closed geodesics in stationary manifolds with strictly convex boundary, *Differential Geom. Appl.* **13** (2000), pp. 251-266.
- [55] A.M. Candela, A. Masiello and A. Salvatore, Existence and multiplicity of normal geodesics in Lorentzian manifolds, *J. Geom. Anal.* **10** (2000), pp. 623-651.
- [56] A.M. Candela and M. Sánchez, Geodesic connectedness in Gödel type Space-Times, *Differential Geom. Appl.* **12** (2000), pp. 105-120.
- [57] A.M. Candela, F. Giannoni and A. Masiello, Multiple critical points for indefinite functionals and applications, *J. Differential Equations* **155** (1999), pp. 203-230.
- [58] A.M. Candela and A. Salvatore, Multiplicity results of an elliptic equation with non-homogeneous boundary conditions, *Topol. Methods Nonlinear Anal.* **11** (1998), pp. 1-18.
- [59] A.M. Candela, Periodic trajectories in Lorentzian manifolds, *Nonlinear Anal.* **30** (1997), pp. 579-587.
- [60] A.M. Candela and A. Salvatore, Light rays joining two submanifolds in Space-Times, *J. Geom. Phys.* **22** (1997), pp. 281-297.
- [61] A.M. Candela, Lightlike periodic trajectories in Space-Times, *Ann. Mat. Pura Appl.* **CLXXI** (1996), pp. 131-158.
- [62] A.M. Candela and M. Lazzo, Positive solutions for a mixed boundary problem, *Nonlinear Anal.* **24** (1995), pp. 1109-1117.

- [63] A.M. Candela and A. Salvatore, Closed geodesics in Riemannian manifolds with convex boundary, *Proc. Roy. Soc. Edinburgh* **124A** (1994), pp. 1247-1258.
- [64] A.M. Candela and M. Lazzo, Remarks on positive solutions to a semilinear Neumann problem, *Atti Accad. Naz. Lincei Cl. Sci. Fis. Mat. Natur. Rend. Lincei (9) Mat. Appl.* **5** (1994), pp. 237-246.
- [65] A.M. Candela, Remarks on the number of positive solutions for a class of nonlinear elliptic problems, *Differential Integral Equations* **5** (1992), pp. 553-560.

#### Chapters in a book

- [66] R. Bartolo, A.M. Candela and A. Salvatore, An existence result for perturbed (p,q)-quasilinear elliptic problems, In: “*Recent Advances in Mathematical Analysis*”. Celebrating the 70th Anniversary of Francesco Altomare (A.M. Candela, M. Cappelletti Montano & E. Mangino Eds), *Trends Math.*, Birkhäuser, 2023 (in press)
- [67] A.M. Candela and M. Sánchez, Geodesics in semi-Riemannian Manifolds: Geometric Properties and Variational Tools, In: *Recent developments in pseudo-Riemannian Geometry* (D.V. Alekseevsky & H. Baum Eds), Special Volume in the ESI-Series on Mathematics and Physics, EMS Publishing House, 2008, pp. 359-418.

#### Preprints (submitted for publication)

- [68] A.M. Candela, G. Eramo, A. Monno and R. Viel, La simmetria nel Canto XXXII dell’*Inferno*: versi e sonorità (preprint 2022)
- [69] A.M. Candela and R. Viel, Dante e la Matematica: simmetrie e periodicità nei suoi scritti (preprint 2022)

#### Proceeding papers

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