

Anna Maria Candela Curriculum Vitae

Business address: Dipartimento di Matematica
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Work experience

- December 3, 2018 - present: **Full Professor** in Mathematical Analysis at *Dipartimento di Matematica* of *Università degli Studi di Bari Aldo Moro* (Bari, Italy)
- December 30, 2013: Italian National Scientific Abilitation as **Full Professor** in Mathematical Analysis
- January 1, 2004 - December 2, 2018: **Associate Professor** in Mathematical Analysis at *Dipartimento di Matematica* of *Università degli Studi di Bari Aldo Moro* (Bari, Italy)
- August 5, 1992 - July 14, 2004: **Assistant Professor** in Mathematical Analysis at *Facoltà di Scienze MM FF NN* of *Università degli Studi di Bari* (Bari, Italy)

Education

- January 25, 1996: Ph.D. Degree in Mathematics defending a thesis in Nonlinear Analysis, supervisor Donato Fortunato
- 1991 - 1994: Ph.D. student in Mathematics at the *Università degli Studi di Pisa* (Pisa, Italy)
- May 1, 1990 - October 31, 1990: postgraduate scholarship of the *Consiglio Nazionale delle Ricerche* at the *Scuola Normale Superiore* (Pisa, Italy), advisor Antonio Ambrosetti
- November 20, 1989: Degree in Mathematics with full marks *Cum Laude* at the *Università degli Studi di Bari* (Bari, Italy)
- July 1985: high school diploma at the Liceo Scientifico (scientific oriented high school) in Putignano (Bari, Italy)

Languages

Italian (mother tongue), English (proficient user), French (basic user), Spanish (basic user).

Last Update August 27, 2019

She is author of **56 research papers** on international journals (already published or in press), **19 proceeding papers**, **1 chapter** on an EMS book, **2 preprints** (submitted for publication), with more than **350 citations** (databases *MathSciNet MR Author ID 321613*, *Web of Science Researcher ID I-6545-2012*, *Scopus Author ID 7005848392*) and **h-index 10**.

She gave: **31 invited talks** at conferences both in Italy and abroad, **13 invited talks** at universities or research centers both in Italy and abroad, **16 short communications** both at national and international workshops. She was **professor** of two mini-courses on Differential Geometry and Variational Methods to PhD and Master students as Erasmus Teaching Staff Mobility at *Universidad de Granada* (September 2014) and at *Universidad de Málaga* (May 2016).

She was member of the **Scientific** and/or the **Organizing Committee** of the following workshops:

- 1) *International Workshop on "Current Trends in Nonlinear Analysis"*, dedicated to Professor Dino Fortunato on the occasion of his 60th birthday, Otranto (Italy), June 12-16, 2006 (Organizing Committee);
- 2) *IV International Meeting on Lorentzian Geometry*, Santiago de Compostela (Spain), February 5-8, 2007 (Scientific Committee);
- 3) *XVIII Congresso U.M.I.*, Bari (Italy), September 24-29, 2007 (Organizing Committee);
- 4) *International Workshop on "Variational and Topological Methods in Nonlinear Phenomena"*, Otranto (Italy), May 1-5, 2008 (Organizing Committee);

- 5) *IperBA09, XIII Incontro Nazionale Problemi di Tipo Iperbolico*, Bari (Italy), February 11-13, 2009 (Organizing Committee);
- 6) *EEMMAS, Evolution Equations and Mathematical Models in the Applied Sciences*, Taranto (Italy), June 29 – July 3, 2009 (Scientific and Organizing Committee);
- 7) *V International Meeting on Lorentzian Geometry (GeLoBa 2009)*, Martina Franca (Italy), July 8-11, 2009 (Organizing Committee);
- 8) “*Variational and Topological Methods in Nonlinear Phenomena*”, in occasion of *Vieri Benci’s 60th birthday*, Cortona (Italy), September 20-23, 2010 (Organizing Committee);
- 9) *VI International Meeting on Lorentzian Geometry (GeLoGra 2011)*, Granada (Spain), September 6-9, 2011 (Scientific Committee);
- 10) *International Workshop on “New Perspectives on Mathematical Models and PDEs”*, Bari (Italy), June 22, 2012 (Scientific and Organizing Committee);
- 11) “*Variational and Topological Methods in Nonlinear Phenomena*”, *Dedicated to the 70th birthday of Anna Maria Micheletti and Giuliana Palmieri*, Alghero (Italy), June 24-28, 2013 (Organizing Committee);
- 12) “*Appuntamento con la Matematica*”, *dedicato a Giuliana Palmieri*, Bari (Italy), December 6, 2013 (Scientific and Organizing Committee).
- 13) *A Nonlinear Day*, Bari (Italy), June 15, 2015 (Scientific and Organizing Committee);
- 14) *Achievements and Perspectives in Nonlinear Analysis. A tribute to Donato Fortunato*, Bari (Italy), June 14-17, 2016 (Organizing Committee);
- 15) *VIII International Meeting on Lorentzian Geometry (GeLoMa 2016)*, Málaga (Spain), September 20-23, 2016 (Scientific Committee);
- 16) *IX International Meeting on Lorentzian Geometry*, Warsaw (Poland), June 17-24, 2018 (Scientific Committee);
- 17) *Conference on Evolution Equations and PDEs, on the Occasion of the 60th Birthday of Gisèle Ruiz Goldstein*, Bari (Italy), July 13, 2018 (Scientific and Organizing Committee);
- 18) *Summer School in “Mathematical Methods in Data Science”*, Bari (Italy), July 16-20, 2018 (Scientific and Organizing Committee);
- 19) *Summer School in “Mathematical Methods in Data Science” (2nd Edition)*, Bari (Italy), July 15-19, 2019 (Scientific and Organizing Committee);

and, actually, she is member of both the Scientific and Organizing Committee of the forthcoming event:

- 1) *Advances and Challenges in Nonlinear Analysis ... and Beyond! On the occasion of the 70th birthday of Vieri Benci*, Bari (Italy), September 24-27, 2019.

Visiting Professor for short periods at the following universities or research centers: *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).

For the *Mediterranean Journal of Mathematics*:

- **Assistant Managing Editor** (2013 - present)
- Member of the **Editorial Board** (2010 - present)
- Member of the **Editorial Staff** (2004 - 2012).

2014 - present: **Associate Editor** of the journal *Boundary Value Problems*.

Guest Editor of the *Special Issue on “Evolution Equations and Mathematical Models in the Applied Sciences”*, *Discrete Contin. Dyn. Syst. Ser. S* **6** (2013).

Editor of the book “*Il Castello Aragonese di Taranto in 3D nell’evoluzione del paesaggio naturale*”, DIGILABS s.a.s., Bari, 2013.

Principal Investigator of the following granted projects:

- INdAM - GNAMPA Project 2018 “*Problemi ellittici semilineari: alcune idee variazionali*”;

- INdAM - GNAMPA Project 2015 “*Metodi variazionali e topologici applicati allo studio di problemi ellittici non lineari*”;

local coordinator of the granted national research project:

- MIUR-PRIN project 2017JPCAPN “*Qualitative and quantitative aspects of nonlinear PDEs*” (P.I. B. Sciunzi);

member of the granted project *Fondi di Ricerca d’Ateneo 2015/16*, supported by University Research Funds.

Referee of some international journals in Mathematics.

1998 - present: *Reviewer* of the *Mathematical Reviews*, issue of the *American Mathematical Society*. Member of *INdAM - G.N.A.M.P.A.*, *Unione Matematica Italiana*, *European Mathematical Society*, *European Women in Mathematics*.

2013 - present: Member of the **Boarding School of the Ph.D. in Computer Science and Mathematics** of her university.

2005 - 2015: Member of the **Boarding School of the Ph.D. in Mathematics** of her university.

2005 - 2007: **Advisor of the Ph.D. student** Valeria Luisi (Ph.D. Degree in Mathematics got on May 18, 2007 at *Università degli Studi di Bari*).

February 26, 2004: **Member of the jury** for the defence of the PhD thesis of Miguel Angel Javaloyes Victoria (*Doctorado en Matemáticas, Universidad de Murcia, Murcia, Spain*).

In 2008: **referee of the PhD thesis** of Magdalena Caballero (*Doctorado en Matemáticas, Universidad de Granada, Granada, Spagna*).

September 13, 2010 - December 15, 2010: **Scientific Advisor** of Verónica Martín Molina, Ph.D. student of the *Doctorado en Matemáticas* della *Universidad de Sevilla* (Siviglia, Spain), during her visit at the *Dipartimento di Matematica* of the *Università degli Studi di Bari Aldo Moro* (*Programa Nacional de Formación de Profesorado Universitario n° AP2007-04195*).

September 30, 2014 - October 11, 2014: **Proposer Professor** of the “Junior” Visiting Professor Nils Waterstraat, “*Dirichlet Postdoc*” of *Berlin Mathematical School at Humboldt-Universität zu Berlin* (*Programma Visitatore GNAMPA 2014-2015*).

March 12, 2018: **Member of the jury** for the defence of the PhD thesis of José Antonio Sánchez Pelegrín (*Doctorado en Matemáticas, Universidad de Granada, Granada, Spain*).

Advisor of some degree thesis of students in *Mathematics* both of first level and of second level degree and of some first level degree thesis in *Science and Technical Nautical Management*.

2013 - present: **Delegate** of the *Dipartimento di Matematica* in the Erasmus+ Task Force of her university.

2006 - 2013: **Delegate** of the *II Facoltà di Scienze MM FF NN* in the LLP-Erasmus Task Force of her university.

2005 - present: **Coordinator** of some Erasmus+ Bilateral Agreements.

Actually, teaching at the following courses:

- *Elements of Calculus of Variations with Applications to the Study of Geodesics* at the School of the Ph.D. in Computer Science and Mathematics of her university
- *Analisi Superiore 2* (Advanced Mathematical Analysis) at the second level degree in Mathematics
- *Analisi non Lineare* (Nonlinear Analysis) at the first level degree in Mathematics.

Furthermore, she has an 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.

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 \mathbf{R}^N with either homogeneous or nonhomogeneous boundary conditions; elliptic equations in unbounded domains of \mathbf{R}^N ; semi-linear elliptic problems of p-Laplacian type both in bounded and unbounded domains; existence and multiplicity theorems for unbounded functionals in Banach spaces; nonlinear problems related to Thomas-Fermi equation.

Publications

Published papers on international journals with referee

- [1] A.M. Candela, G. Palmieri and A. Salvatore, Multiple solutions for some symmetric supercritical problems, *Commun. Contemp. Math.* (in press).
- [2] A.M. Candela and A. Salvatore, Existence of minimizers for some quasilinear elliptic problems, *Discrete Contin. Dyn. Syst. Ser. S* (in press).
- [3] A.M. Candela and A. Salvatore, Positive solutions for a generalized p-Laplacian type problem, *Discrete Contin. Dyn. Syst. Ser. S* (in press).
- [4] 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
- [5] 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
- [6] 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
- [7] 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
- [8] 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
- [9] 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
- [10] 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
- [11] 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
- [12] 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
- [13] 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
- [14] 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
- [15] 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
- [16] 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
- [17] 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
- [18] 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
- [19] 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
- [20] 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.
- [21] 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.
- [22] 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
- [23] A.M. Candela, G. Cerami and G. Palmieri, On some nonhomogeneous elliptic problems in unbounded domains, *Adv. Nonlinear Stud.* **9** (2009), pp. 625-637.
- [24] 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
- [25] 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.
- [26] 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
- [27] 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
- [28] 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
- [29] A.M. Candela and G. Palmieri, Multiple solutions of some nonlinear variational problems, *Adv. Nonlinear Stud.* **6** (2006), pp. 269-286.
- [30] 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.
- [31] 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.
- [32] A.M. Candela and A. Salvatore, Periodic solutions for dynamical systems on non-complete Riemannian manifolds, *Nonlinear Anal.* **63** (2005), pp. e379-e388.
- [33] A.M. Candela, Normal geodesics in static spacetimes with critical asymptotic behavior, *Nonlinear Anal.* **63** (2005), pp. e357-e367.
- [34] R. Bartolo and A.M. Candela, Quadratic Bolza problems in static spacetimes with critical asymptotic behavior, *Mediterr. J. Math.* **2** (2005), pp. 459-470.
- [35] A.M. Candela and M. Squassina, On a class of elliptic equations for the n -Laplacian in \mathbf{R}^n with a one-sided exponential growth, *Serdica Math. J.* **29** (2003), pp. 315-336.
- [36] 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.
- [37] 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.
- [38] A.M. Candela, J.L. Flores and M. Sánchez, On General Plane Fronted Waves. Geodesics, *Gen. Relativity Gravitation* **35** (2003), pp. 631-649.
- [39] 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.
- [40] 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.
- [41] A.M. Candela, A. Salvatore and M. Sánchez, Periodic trajectories in Gödel type Space-Times, *Nonlinear Anal.* **51** (2002), pp. 607-631.
- [42] A.M. Candela and A. Salvatore, Normal geodesics in stationary Lorentzian manifolds with unbounded coefficients, *J. Geom. Phys.* **44** (2002), pp. 171-195.
- [43] 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.

- [44] A.M. Candela and M. Sánchez, Existence of geodesics in Gödel type Space-Times, *Nonlinear Anal.* **47** (2001), pp. 1581-1592.
- [45] A.M. Candela and A. Salvatore, Closed geodesics in stationary manifolds with strictly convex boundary, *Differential Geom. Appl.* **13** (2000), pp. 251-266.
- [46] 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.
- [47] A.M. Candela and M. Sánchez, Geodesic connectedness in Gödel type Space-Times, *Differential Geom. Appl.* **12** (2000), pp. 105-120.
- [48] A.M. Candela, F. Giannoni and A. Masiello, Multiple critical points for indefinite functionals and applications, *J. Differential Equations* **155** (1999), pp. 203-230.
- [49] 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.
- [50] A.M. Candela, Periodic trajectories in Lorentzian manifolds, *Nonlinear Anal.* **30** (1997), pp. 579-587.
- [51] A.M. Candela and A. Salvatore, Light rays joining two submanifolds in Space-Times, *J. Geom. Phys.* **22** (1997), pp. 281-297.
- [52] A.M. Candela, Lightlike periodic trajectories in Space-Times, *Ann. Mat. Pura Appl.* **CLXXI** (1996), pp. 131-158.
- [53] A.M. Candela and M. Lazzo, Positive solutions for a mixed boundary problem, *Nonlinear Anal.* **24** (1995), pp. 1109-1117.
- [54] A.M. Candela and A. Salvatore, Closed geodesics in Riemannian manifolds with convex boundary, *Proc. Roy. Soc. Edinburgh* **124A** (1994), pp. 1247-1258.
- [55] 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.
- [56] 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.

Chapter in a book

- [57] 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.

Proceeding papers

- [58] R. Bartolo, A.M. Candela and A. Salvatore, Infinitely many solutions for a perturbed Schrödinger equation, in: “*Proceedings of the 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications*” (M. de Leon, W. Feng, Z. Feng, X. Lu, J.M. Martell, J. Parcet, D. Peralta-Salas & W. Ruan Eds), *Discrete Contin. Dynam. Syst., AIMS Proceedings* 2015 (2015), pp. 94-102. DOI:10.3934/proc.2015.0094
- [59] A.M. Candela and G. Palmieri, Multiple solutions for p-Laplacian type problems with an asymptotically p-linear term, In: *Analysis and Topology in Nonlinear Differential Equations* (D.G. de Figueiredo, J.M. do Ó & C. Tomei Eds), *Progr. Nonlinear Differential Equations Appl.* **85** (2014), pp. 175-186.
- [60] R. Bartolo, A.M. Candela and A. Salvatore, Infinitely many radial solutions of a non-homogeneous p-Laplacian problem, in: “*Proceedings of the 9th AIMS Conference on Dynamical Systems, Differential Equations and Applications*” (D. Costa, W. Feng, Z. Feng, X. Lu, X. Sun, M. Taniguchi, A. Vitolo & A.A. Yakubu Eds), *Discrete Contin. Dynam. Syst. Suppl.* **2013**, AIMS Press (2013), pp. 51-59. DOI:10.3934/proc.2013.2013.51
- [61] R. Bartolo, A.M. Candela and J.L. Flores, Global geodesic properties of Gödel type space-times, In: *Recent Trends in Lorentzian Geometry* (M. Sánchez, R. Ortega & A. Romero Eds), Springer Proceedings in Mathematics & Statistics **26** (2013), pp. 179-193.
- [62] A.M. Candela, A. Romero and M. Sánchez, Remarks on the completeness of plane waves and the trajectories of accelerated particles in Riemannian manifolds, In: *Proc. Int. Meeting on*

- Differential Geometry* (A.L. Albuje, M. Caballero & R.M. Rubio Eds), Ediciones Don Folio, Córdoba, 2012, pp. 27-38.
- [63] A.M. Candela and G. Palmieri, An abstract three critical points theorem and applications, In: *Proceedings of Dynamic Systems and Applications* **6** (G.S. Ladde, N.G. Medhin, C. Peng & M. Sambandham Eds), Dynamic Publishers Inc., Atlanta, 2012, pp. 70-77.
- [64] R. Bartolo, A.M. Candela and E. Caponio, An Avez-Seifert type theorem for orthogonal geodesics on a stationary spacetime, In: *Advances in Lorentzian Geometry* (M. Plaue, A. Rendall & M. Scherfner Eds), *AMS/IP Stud. Adv. Math.* **49**, Amer. Math. Soc., Providence, RI, 2011, pp. 1-9.
- [65] A.M. Candela and G. Palmieri, Some abstract critical point theorems and applications, In: *Dynamical Systems, Differential Equations and Applications* (X. Hou, X. Lu, A. Miranville, J. Su & J. Zhu Eds), *Discrete Contin. Dynam. Syst. Suppl.* **2009** (2009), pp. 133-142.
DOI:10.3934/proc.2009.2009.133
- [66] R. Bartolo, A.M. Candela and J.L. Flores, A quadratic Bolza-type problem in stationary spacetimes with critical growth, In: *More Progresses in Analysis: Proceedings of the 5th International Isaac Congress, Catania, Italy, 25-30 July 2005* (H.G.W. Begehr & F. Nicolosi Eds), World Scientific Publishing Co., 2009, pp. 763-770.
- [67] A.M. Candela and A. Salvatore, Multiple solitary waves for non-homogeneous Klein-Gordon-Maxwell equations, In: *More Progresses in Analysis: Proceedings of the 5th International Isaac Congress, Catania, Italy, 25-30 July 2005* (H.G.W. Begehr & F. Nicolosi Eds), World Scientific Publishing Co., 2009, pp. 753-762.
- [68] A.M. Candela and G. Palmieri, Multiple solutions of p -Laplace type equations, In: *Proceedings of Dynamic Systems and Applications* **5** (G.S. Ladde, N.G. Medhin, C. Peng & M. Sambandham Eds), Dynamic Publishers Inc., Atlanta, 2008, pp. 78-84.
- [69] R. Bartolo, A.M. Candela, J.L. Flores and A. Salvatore, Periodic trajectories in Plane Wave type spacetimes, *Discrete Contin. Dynam. Syst. Suppl.* **2005** (2005), pp. 77-83.
DOI:10.3934/proc.2005.2005.77
- [70] R. Bartolo, A.M. Candela and J.L. Flores, Timelike geodesics in stationary Lorentzian manifolds with unbounded coefficients, *Discrete Contin. Dynam. Syst. Suppl.* **2005** (2005), pp. 70-76.
DOI:10.3934/proc.2005.2005.70
- [71] A.M. Candela, J.L. Flores and M. Sánchez, A classical problem of existence of critical curves with fixed extremes for a Lagrangian, In: *Proc. XI Fall Workshop on Geometry and Physics* (J. Fernández, W. García & A. Viña Eds), *Publ. R. Soc. Mat. Esp.* **6** (2004), pp. 57-66.
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