

Antonio Marigonda

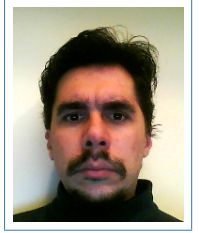
Curriculum Vitæ

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Personal data

Place of birth Rome, Italy
Date of birth 30th November 1977
Nationality Italian
Gender Male

Education

1996–2000 **Bachelor and Master of Science in Mathematics**, *University of Padova*, Italy.
Graduated on 27th February 2001 with score 110/110 magna cum laude
2001–2005 **Ph.D. in Mathematics**, *University of Padova*, Italy.
Graduated on 3rd February 2006

Master thesis

title *Globalization problems in Relativistic Geometric Optics and Synge's World Function*
supervisor Prof. Franco Cardin
description Using the finite reduction methods by Ahmann-Conley-Zehnder and generalizing a result by C. Viterbo, we discuss the existence of a global generating function with a finite number of auxiliary parameters describing the characteristic relation for a geodesic problem in the Hamiltonian formulation, and we show some applications both in Analytic Mechanics and in General Relativity Theory. We construct a global object generalizing the "World Function" introduced by Synge in *Relativity: the General Theory* (North Holland Publishing Company, Amsterdam, 1960), which in the original formulation had only local meaning. In the case where all the auxiliary parameters can be removed, we recover the classical (local) World Function of Synge.

Ph.D. thesis

title *Differentiability properties for a class of non-Lipschitz functions and applications*
supervisor Prof. Giovanni Colombo

description Given a control system $\dot{x} = f(t, x, u)$, denoted with \mathcal{A} the class of admissible controls, and given a closed target set \mathcal{T} with compact boundary, we denote by $y_x(\cdot, u)$ the trajectory starting from x subject to the control strategy u , and define $t_x(u) := \inf\{t : y_x(t, u) \in \mathcal{T}\}$ (we set $\inf \emptyset = +\infty$). We are interested in the study of the differential properties of the minimum time function $T(x) := \inf_{u \in \mathcal{A}} t_x(u)$. There are some well known result on Lipschitz or Hölder continuity of the minimum time function, but in the Hölder case, there are no strong result on differentiability, while in the Lipschitz case, Rademacher's theorem ensures this property almost everywhere. Within a class of problems enjoying strong controllability properties (i.e. granting locally Lipschitz continuity of T), the natural regularity of the minimum time function is semiconcavity or semiconvexity. This property was deeply studied by Cannarsa and Sinestrari in their book (2004). Under milder controllability assumptions, however, one can expect only Hölder continuity. Therefore a good class of regularity for the minimum time function cannot consist of semiconcave or semiconvex function (which are locally Lipschitz).

The main aim of the thesis was to introduce and study a regularity property, generalizing semiconvexity or semiconcavity, which may be suitable for general minimum time problems.

Scientific interests

- Nonsmooth Analysis
- Geometric Measure Theory
- Control Theory and Optimization
- Viscosity solutions of Hamilton–Jacobi equations
- Optimal Transportation Theory

Research Projects

- 2002 Italian PRIN 2002: Metodi di viscosità, metrici e di teoria del controllo in equazioni alle derivate parziali nonlineari (*Viscosity, metric and control theoretic methods in nonlinear partial differential equations*). National Scientific Coordinator: Italo Capuzzo Dolcetta, Sapienza University of Roma, Italy. Role in the project: member of the local unity of University of Padova, Italy (local scientific coordinator: Martino Bardi, University of Padova, Italy).
- 2009 Italian PRIN 2009: Metodi di viscosità, geometrici e di controllo per modelli diffusivi nonlineari (*Viscosity, metric and control theoretic methods in nonlinear diffusive models*). National Scientific Coordinator: Italo Capuzzo Dolcetta, Sapienza University of Roma, Italy. Role in the project: member of the local unity of University of Padova, Italy (local scientific coordinator: Martino Bardi, University of Padova, Italy).
- 2009 Italian INdAM - GNAMPA Project 2009: Metodi di viscosità e metrici per l'omogeneizzazione (*Viscosity and metric methods in homogenization*). National Scientific Coordinator: Andrea Davini, Sapienza University of Roma, Italy. Role in the project: member of the local unity of University of Padova, Italy .
- 2010 Italian INdAM - GNAMPA Project 2010: Fenomeni di propagazione di fronti e problemi di omogeneizzazione (*Front propagation phenomena and homogenization problems*). National Scientific Coordinator: Luca Rossi, University of Padova, Italy. Role in the project: member of the local unity of University of Padova, Italy .

- 2010 Project funded by the Dept. of Computer Science of the University of Verona (Recently hired researcher project): Applicazione della teoria del Trasporto Ottimo alla modellizzazione delle fibre nervose del cervello (*Application of Optimal Transport Theory to the modeling of brain's neural fibers*). Role in the project: coordinator .
- 2012 Italian INdAM - GNAMPA Project 2012: Fenomeni di propagazione su grafi ed in mezzi eterogenei (*Front propagation phenomena on graphs and heterogeneous media*). National Scientific Coordinator: Claudio Marchi, University of Padova, Italy. Role in the project: supervisor of the local unity of University of Verona, Italy .
- 2015 Italian INdAM - GNAMPA Project 2015: Metodi di set-valued analysis e di teoria del trasporto ottimo per la modellizzazione di mercati finanziari con costi di transazione in ambito deterministico e stocastico (*Set-valued Analysis and optimal transportation methods for modeling of financial markets with transition costs from a deterministic and stochastic viewpoint*). Role in the project: national coordinator .
- 2016 Italian INdAM - GNAMPA Project 2016: Equazioni alle derivate parziali stocastiche e controllo ottimo stocastico con applicazioni alla matematica finanziaria (*Stochastic Partial Differential Equations and Stochastic Optimal Control with Applications to Mathematical Finance*). National Scientific Coordinator: Luca Di Persio, University of Verona, Italy. Role in the project: member of the local unity of University of Verona, Italy .
- 2017 Italian INdAM - GNAMPA Project 2017: Metodi di controllo ottimo stocastico per l'analisi di problemi di debt-management (*Methods of Stochastic Optimal Control for the Analysis of Debt-Management Problems*). Role in the project: national coordinator .

Experience

Research positions

- 1.Feb.2006 **Research collaborator**, *Department of Mathematics, University "La Sapienza", Rome, Italy.*
30.Jul.2006
Enrolled in the Italian national research project (PRIN) *Viscosity, metric and control theoretic methods for nonlinear partial differential equations.*
- 1.Aug.2006 **Post-doc position**, *Department of Mathematics, University of Pavia, Italy.*
21.Dec.2008 Postdoctoral research position
- 22.Dec.2008 **Researcher**, *Department of Computer Sciences, University of Verona, Italy.*
present time Permanent position as researcher

Teaching activities

- 2002–2005 **Teaching assistant**, *Department of Mathematics, University of Padova, Italy.*
Teaching assistant at the following classes of Bachelor in Mathematics (supervisor Prof. T. Valent): Calculus 1 (25 hours, years 2002-2003); Calculus 2 (25 hours, years 2003-2004 and years 2004-2005).
- 2006–2008 **Teaching assistant**, *Department of Mathematics, University of Pavia, Italy.*
Teaching assistant at classes of Functional Analysis, Graduating course in Mathematics, and Mathematics Complements for Applied Sciences, Graduating course in Biology, supervisor prof. P. Colli (16 hours, years 2006-2007). Teaching assistant at class of Mathematical Methods for Engineering, Master in Engineering, supervisors prof.s G. Savaré and U. Gianazza (12 hours, years 2007-2008)

2008–today **Teacher**, *Department of Computer Sciences, University of Verona, Italy.*

Teacher of the following classes of BSc. in Applied Mathematics and of MSc. in Mathematics:

- Mathematical Models in Biology (BSc., 24 hours, a.y. 2008-2009);
- Advanced Calculus 2 (BSc., 8 hours, a.y. 2008-2009);
- Exercises in Advanced Calculus 2 (BSc., 45 hours in each of the following a.y. 2009-2010, 2011-2012, 2012-2013, 2013-2014);
- Exercises in Advanced Calculus 2 (BSc., 48 hours in each of the following a.y. 2014-2015, 2015-2016, 2016-2017);
- Exercises in Functional Analysis (MSc., 24 hours, a.y. 2009-2010);
- Teaching assistant in Functional Analysis (MSc., 6 hours, a.y. 2010-2011);
- Game Theory (MSc., 8 hours, a.y. 2012-2013);
- Optimization (MSc., 48 hours in each of the following a.y. 2011-2012, 2012-2013);
- Optimization (MSc., delivered entirely in English, 48 hours in each of the following a.y. 2013-2014, 2014-2015, 2015-2016, 2016-2017);
- Methods for Applied Mathematics (MSc., delivered entirely in English, 8 hours, years 2014-2015).
- Research and modeling seminar (MSc., delivered entirely in English, 8 hours, years 2016-2017).

Student supervision

Ph.D. Students.

- Giulia Cavagnari, XXIX Cycle of Ph.D. School in Mathematics, University of Trento, Italy, *Time optimal control problems in the space of measures*, defended on 29 November 2016.

M.Sc. Students.

- Silvia Rigo, Master's Program in Mathematics, University of Verona, *Controllability of some nonlinear systems with drift via generalized curvature properties*, defended on 19 March 2013.
- Anna Pietropoli, Master's Program in Mathematics, University of Verona, *On the approximation of geodesics for a class of modified Wasserstein distances induced by concave mobility functions*, defended on 19 March 2013.
- Giulia Cavagnari, Master's Program in Mathematics, University of Verona, *Generalized control systems in the space of probability measures*, defended on 15 October 2013.
- Alice Bordin, Master's Program in Mathematics, University of Verona, *Evolution of levels structures: from the rigid structure to the flexible one*, defended on 18 March 2014.
- Ilaria Brocco, Master's Program in Mathematics, University of Verona, *Values for games with non-feasible coalitions*, defended on 18 March 2014.
- Martina Zamboni, Master's Program in Mathematics, University of Verona, *Set-valued optimization and applications to economics*, defended on 21 July 2015.
- Andrea Materassi, Master's Program in Mathematics, University of Verona, *Geometric controllability problems in a quadcopter model*, defended on 13 July 2016.

B.Sc. Students.

- Silvia Ortolani, Bachelor's Program in Mathematics, University of Verona, *Generalized gradients and distance function*, defended on 19 March 2013.
- Martina Zamboni, Bachelor's Program in Mathematics, University of Verona, *Regularity of the minimum time function for control problems*, defended on 22 July 2013.
- Andrea Materassi, Bachelor's Program in Mathematics, University of Verona, *Geometric equilibrium conditions in some thermodynamical systems*, defended on 15 October 2013.
- Iris Basso, Bachelor's Program in Mathematics, University of Verona, *Analysis of attainability for control-affine systems via splitting methods*, defended on 27 November 2014.
- Erik Pillon, Bachelor's Program in Mathematics, University of Verona, *Small time local attainability for control systems*, defended on 19 July 2016.

Miscellaneous

- 12.Apr.2010 **Visiting Professor**, *École Polytechnique, Palaiseau, France*.
- 11.May.2010 Visiting professor at École Polytechnique and scientific collaboration with prof. U. Boscaïn, grant funded by COOPERINT 2009 Project, University of Verona, Italy.
- 18.Oct.2010 **Member of Ph.D. Evaluating Committee**, *University of Évora, Portugal*.
Member of the commission for the evaluation of Ph.D. Thesis of Dt. Fatima Pereira, supervisor prof. Vladimir Goncharov.
- 28.Jan.2013 **Congress Organizer**, *University of Verona, Italy*.
- 29.Jan.2013 Organizer of the “Workshop on Optimization, Control Theory and Applications”.
- 30.Ago.2013 **Visiting Professor**, *Bulgarian Academy of Sciences, Sofia, Bulgaria*.
- 28.Sep.2013 Invited visiting professor for scientific collaboration with prof. M. Krastanov
- 15.Oct.2013 **Associated Referent for Foreign Affairs**, *Area of Science and Engineering*, University of Verona, Italy.
today
Associated Referent of Science and Engineering Area for Foreign Affairs and ERASMUS+ agreements.
- 21.Oct.2014 **Responsible of Teacher Training Activities (Italian TFA)**, *Class A/048 Applied Mathematics*, University of Verona, Italy.
today
General coordinator of the TFA activities for the class A/048 Applied Mathematics at University of Verona, Italy
- 14.Mar.2016 **Visiting Professor**, *Penn State University, State College, PA, USA*.
- 02.Apr.2016 Invited visiting professor for scientific collaboration with prof. A. Bressan
- 28.Feb.2017 **Visiting Professor**, *North Carolina State University, Raleigh, NC, USA*.
- 19.Mar.2017 Invited visiting professor for scientific collaboration with prof. K.T. Nguyen
- 01.May.2017 **Visiting Professor**, *Université de Bretagne Occidentale, Brest, France*.
- 31.May.2017 Invited visiting professor for scientific collaboration with prof. M. Quincampoix

Languages

Italian	native speaker
English	fluent
Russian	basic

*European language level: Russian B2,
Certified by Linguistic Center of University of Verona, Italy*

Talks

- 2003 XVII Congress of Unione Matematica Italiana, Milano (Italy), 8-13 September: “Differenziabilità delle funzioni φ -convesse” (Differentiability of φ -convex functions)
- 2004 Seminars “Differential Equations and Applications”, Padova (Italy), 10 June: “Risultati di regolarità per una classe di funzioni non lipschitziane” (Regularity results for a class of non-Lipschitz functions)
- 2004 IV World Congress of Nonlinear Analysts, Orlando, FL (USA), 30 June - 8 July: “Differentiability properties for a class of non-Lipschitz functions”
- 2004 Workshop COFIN “Viscosity, metric and control theoretic methods in nonlinear PDEs”, Gaeta (Italy), 27 September - 1 October: “Differentiability of functions with φ -convex epigraph”

- 2005 Seminars "Hamiltonians, Metrics and Control", University La Sapienza, Roma (Italy), 2 December: "Proprietà differenziali per una classe di funzioni non lipschitziane ed applicazioni" (Differentiability properties for a class of non-Lipschitz functions and applications)
- 2006 MCT 2006 Louisiana Workshop on Mathematical Control Theory, Baton Rouge, LA (USA), 16-25 May: "Differentiability properties for a class of non-Lipschitz functions and applications"
- 2006 Seminars "Analysis and applications", Pavia (Italy), 5 October: "Proprietà differenziali per una classe di funzioni non lipschitziane ed applicazioni" (Differentiability properties for a class of non-Lipschitz functions and applications)
- 2007 Workshop "Control Day", Padova (Italy), 30 March: "Condizioni del second'ordine per la controllabilità di sistemi non lineari con drift" (Second-Order Conditions for the Controllability of Nonlinear Systems with Drift)
- 2007 MCT 2007 Louisiana Workshop on Mathematical Control Theory, Baton Rouge, LA (USA), 22-31 May: "Second-Order Conditions for the Controllability of Nonlinear Systems with Drift"
- 2007 6th International Conference on "Large-Scale Scientific Computations", Institute for Parallel Processing, Bulgarian Academy of Sciences, Sozopol (Bulgaria), 5-9 June: "Regularity Properties of the Minimum Time Function for a Class of Linear Control Problems"
- 2008 V World Congress of Nonlinear Analysts, Orlando, FL (USA), 2-9 July: "Differentiability properties for a class of non-Lipschitz functions and applications to Control Theory"
- 2008 Seminars ECE, Carnegie-Mellon University, Pittsburgh, PA (USA), 11 July: "Differentiability properties for a class of non-Lipschitz functions and applications to Control Theory"
- 2009 Workshop "Problems in Calculus of Variations and Partial Differential Equations", Department of Mathematics, University of Trento, Trento (Italy), 22 June: "Regularity results for a class of non Lipschitz functions and applications"
- 2010 SIMAI 2010 Meeting, Cagliari (Italy), 23 June: "A mathematical model of neuronal fibers"
- 2010 Mini-symposium of Functional Analysis and Applications, Évora (Portugal), 18 October: "A mathematical model of neuronal fibers"
- 2011 Seminar at Department of Mathematics, University La Sapienza, Roma (Italy), 22 February: "A mathematical model of neuronal fibers"
- 2011 Seminar at Department of Mathematics, University of Padova, Padova (Italy), 28 April: "Some regularity results for a class of upper semicontinuous BV functions"
- 2011 8th International Conference on "Large-Scale Scientific Computations", Institute for Parallel Processing, Bulgarian Academy of Sciences, Sozopol (Bulgaria), 6-10 June: "Optimal Mass Transportation-based Models for Neuronal Fibers"
- 2011 I.N.D.A.M. Workshop "Weak KAM Theory in Italy", Cortona (Italy), 12-17 September: "The Clarke generalized gradient for functions whose epigraph has positive reach"
- 2013 9th International Conference on "Large-Scale Scientific Computations", Institute for Parallel Processing, Bulgarian Academy of Sciences, Sozopol (Bulgaria), 3-7 June: "BV regularity and differentiability properties of a class of upper semicontinuous functions"
- 2013 Seminar of Analysis, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia (Bulgaria), 17 September: "Singularities and SBV regularity of minimum time function for a class of differential inclusions"

- 2014 I.N.D.A.M. Workshop “Analysis and Geometry in Control Theory and its Applications”, Roma (Italy), 9-13 June: “Controllability of some nonlinear systems with drift via generalized curvature properties”
- 2015 10th International Conference on “Large-Scale Scientific Computations”, Institute for Parallel Processing, Bulgarian Academy of Sciences, Sozopol (Bulgaria), 8-12 June: “STLA for a class of control systems with state constraints”
- 2015 27th IFIP TC7 Conference on System Modelling and Optimization, Nice-Sophia Antipolis (France), 29 June - 3 July: “Generalized control systems in the space of probability measures”
- 2016 Seminar of Analysis, Rutgers University–Camden, NJ (USA), 25 March: “Generalized control systems in the space of probability measures”
- 2016 11th AIMS International Conference on Dynamical Systems, Differential Equations and Applications, Orlando, FL (USA), 1 - 5 July: “Small-Time Local Attainability for a Class of Control Systems with State Constraints”
- 2017 Seminars of Differential Equations - Department of Mathematics, North Carolina State University, Raleigh, NC (USA), 1 March: “Control Problems in the Wasserstein Space and Applications to Multi-Agent Systems”
- 2017 Seminars of Department of Mathematics, Université de Bretagne Occidentale, Brest (France), 2 May: “Control Problems in the Wasserstein Space and Applications to Multi-Agent Systems”
- 2017 11th International Conference on “Large-Scale Scientific Computations”, Institute for Parallel Processing, Bulgarian Academy of Sciences, Sozopol (Bulgaria), 5-9 June: “Superposition principle for Differential Inclusions and Applications to Multi-Agent Systems”

Publications in Journals

Franco Cardin and Antonio Marigonda. Global world functions. *J. Geom. Symmetry Phys.*, 2:1–17, 2004.

Giovanni Colombo and Antonio Marigonda. Differentiability properties for a class of non-convex functions. *Calc. Var. Partial Differential Equations*, 25(1):1–31, 2006.

Giovanni Colombo, Antonio Marigonda, and Peter R. Wolenski. Some new regularity properties for the minimal time function. *SIAM J. Control Optim.*, 44(6):2285–2299 (electronic), 2006.

Antonio Marigonda. Second order conditions for the controllability of nonlinear systems with drift. *Commun. Pure Appl. Anal.*, 5(4):861–885, 2006.

Giovanni Colombo and Antonio Marigonda. Singularities for a class of non-convex sets and functions, and viscosity solutions of some Hamilton-Jacobi equations. *J. Convex Anal.*, 15(1):105–129, 2008.

Stefano Lisini and Antonio Marigonda. On a class of modified Wasserstein distances induced by concave mobility functions defined on bounded intervals. *Manuscripta mathematica*, 133:197–224, 2010. DOI: 10.1007/s00229-010-0371-3.

Ferdinando Auricchio, Elena Bonetti, and Antonio Marigonda. A metric approach to plasticity via Hamilton-Jacobi equation. *Mathematical Models and Methods in Applied Sciences*, 20(9):1617–1647, 2010. DOI: 10.1142/S0218202510004726.

Antonio Marigonda and Antonio Siconolfi. Dirichlet problem for nonconvex Hamiltonians. *Advances in Differential Equations*, 16(7–8):691–724, 2011.

A. Daducci, A. Marigonda, G. Orlandi, and R. Posenato. Neuronal fiber-tracking via optimal mass transportation. *Commun. Pure Appl. Anal.*, 11(5):2157–2177, 2012.

G. Colombo, A. Marigonda, and P.R. Wolenski. The Clarke generalized gradient for functions whose epigraph has positive reach. *Math. Op. Res.*, 38(3):451–468, 2013.

Antonio Marigonda, Khai Tien Nguyen, and Davide Vittone. Some regularity results for a class of upper semicontinuous functions. *Indiana Univ. Math. J.*, 62:45–89, 2013.

Antonio Marigonda and Silvia Rigo. Controllability of some nonlinear systems with drift via generalized curvature properties. *SIAM J. Control Optim.*, 53(1):434–474, 2015.

Piermarco Cannarsa, Antonio Marigonda, and Khai T. Nguyen. Optimality conditions and regularity results for time optimal control problems with differential inclusions. *J. Math. Anal. Appl.*, 427(1):202–228, 2015.

Benedetto Piccoli, Antonio Marigonda, and Giulia Cavagnari. Optimal synchronization problem for a multi-agent system. *Netw. Heterog. Media*, 12(2):277–295, 2017.

Le Thuy, T.T. and Marigonda, Antonio. Small-time local attainability for a class of control systems with state constraints. *ESAIM: COCV*, 23(3):1003–1021, 2017.

Other publications

Conference Proceedings

- 2004 Marigonda, Antonio, Comparison between some nonsmooth and geometric measure theory concepts, proceedings of the conference *World Congress of Nonlinear Analysts (WCNA 2004)* (30 Jun - 7 Jul 2004, Orlando, FL, USA). Published in *Nonlinear Analysis*, ISSN: 0362-546X, Vol: 63 (2005), n. 5-7, pp. 1673-1677 DOI: 10.1016/j.na.2004.12.032.

Available at

<http://www.sciencedirect.com/science/article/B6V0Y-4FDJ6P1-2/2/0d13e5c47ae638045620375cbf063e33>

- 2005 Marigonda, Antonio, Second order controllability conditions for the controllability of control systems with drift, proceedings of the conference *Control Systems: Theory, Numerics and Applications* (30 Mar - 1 Apr 2005, Rome, Italy). Published in *Proceedings of Science*, ISSN: 1824-8039, Serie: CSTNA2005 (2005), n.12, pp. 1-7.

Available at http://pos.sissa.it/archive/conferences/018/012/CSTNA2005_012.pdf

- 2011 Marigonda, Antonio and Orlandi, Giandomenico, A mathematical model for neuronal fibers, proceedings of the *10th Congress of SIMAI* (Jun 21-25, 2010, Cagliari, Italy). Published in *Communications in Applied and Industrial Mathematics*, ISSN: 2038-0909, doi: 10.1685/journal.caim.363.

Available at <http://caim.simai.eu/index.php/caim/article/view/363/pdf>

- 2012 Marigonda, Antonio and Orlandi, Giandomenico, Optimal Mass Transportation-based Models for Neuronal Fibers, proceeding of the *8th International Conference on "Large-Scale Scientific Computations"* (Jun 6-10, 2011, Sozopol, Bulgaria). Springer Lecture Notes in Computer Science n.7116 (2012), Springer Verlag Germany, pp. 131-138.

- 2014 Marigonda, Antonio and Nguyen, Khai T. and Vittone, Davide, BV Regularity and Differentiability Properties of a Class of Upper Semicontinuous Functions, proceeding of the *9th International Conference on "Large-Scale Scientific Computations"* (Jun 3-7, 2013, Sozopol, Bulgaria). Springer Lecture Notes in Computer Science n.8353 (2014), Springer Verlag Germany, pp. 116-124.

- 2015 Marigonda, Antonio; Le, Thuy Thi, Sufficient Conditions for Small Time Local Attainability for a Class of Control Systems in LECTURE NOTES IN COMPUTER SCIENCE vol. 9374 (LECTURE NOTES IN COMPUTER SCIENCE) Springer Verlag Germany in Large-Scale Scientific Computing , Springer Verlag Germany , Atti di "10th International Conference on Large-Scale Scientific Computing, LSSC 2015" , Sozopol, Bulgaria , June 8-12, 2015 , 2015 , pp. 117-125
- Marigonda, Antonio; Cavagnari, Giulia, Time-optimal control problem in the space of probability measures in LECTURE NOTES IN COMPUTER SCIENCE vol. 9374 (LECTURE NOTES IN COMPUTER SCIENCE) Springer Verlag Germany , Atti di "10th International Conference on Large-Scale Scientific Computing, LSSC 2015" , Sozopol, Bulgaria , 8-12 June 2015 , 2015 , pp. 109-116
- 2016 Cavagnari, Giulia and Marigonda, Antonio and Orlandi, Giandomenico, Hamilton-Jacobi-Bellman equation for a time-optimal control problem in the space of probability measures, IFIP Advances in Information and Communication Technology, Volume 494, 2016, Pages 200-208, proceedings of *27th IFIP TC7 Conference on System Modeling and Optimization, CSMO 2015; Sophia Antipolis; France; 29 June 2015 through 3 July 2015*

Preprints

Giulia Cavagnari, Antonio Marigonda, Khai Tien Nguyen, and Fabio S. Priuli, Generalized control systems in the space of probability measures, to appear in *Set-Valued and Variational Analysis*

Alberto Bressan, Antonio Marigonda, Khai T. Nguyen, and Michele Palladino, A Stochastic Model of Optimal Debt Management and Bankruptcy, accepted by *SIAM J. Fin. Math.*

Last update

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