



Curriculum Vitae Massimiliano Ferrara

Personali

Nome:	Massimiliano
Cognome:	Ferrara
Data di Nascita:	08 giugno 1972
Nazionalità:	Italiana
Lingue Parlate	Italiano (madrelingua), Inglese (avanzato), Francese (intermedio)

Contatti

Indirizzo:	Dipartimento di Giurisprudenza ed Economia e Scienze Umane (Di.Gi.ES) - Università Mediterranea di Reggio Calabria – Cittadella Universitaria, Via dell'Università 25 - 89124 Reggio Calabria, Italia
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Posizione attuale

2018- presente	Direttore Dipartimento Di.Gi.ES
2017-presente	Direttore scientifico Decisions_LAB – Università Mediterranea
2017-2019	Componente del Comitato Scientifico AMASES
2016-presente	Membro del Collegio dei Docenti del Dottorato di Ricerca in “Diritto ed Economia” - Università Mediterranea di Reggio Calabria
2015-presente	Componente del Senato Accademico dell' Università' Mediterranea di Reggio Calabria.
2015-presente	Docente titolare del Corso Matematica per le Scienze economiche (dall'AA. 2018-2019 – Business Analytics & Decision Theory) per il Corso di Studio magistrale in Economics - Università' Mediterranea di Reggio Calabria.

2013-presente	Research Affiliate – The Invernizzi Center for Research in Innovation, Organization, Strategy and Entrepreneurship (ICRIOS), Università Commerciale L. Bocconi, Milano.
2007-presente	Docente titolare del Corso Matematica per l'economia per il Corso di Laurea in Scienze Economiche, Facoltà di Giurisprudenza (dal 2014 Dipartimento di Giurisprudenza) - Università' Mediterranea di Reggio Calabria.

Formazione

02.2001	Titolo di Dottore di Ricerca in "Strumenti matematici per l'Economia e la Finanza" – Università degli Studi di Messina. Tesi di dottorato in Economia matematica. Titolo: "Convessità e relative generalizzazioni nell'analisi economica pura: alcuni risultati in teoria dell'ottimizzazione ed in teoria dei giochi".
01.2001	Corso di specializzazione in "Mathematical Models in Finance"- Scuola Normale Superiore di Pisa.
07.1998	Master in Foundations and developments of mathematical economics - Dipartimento di Matematica e Statistica dell'Università di Napoli Federico II.
10.1995	Laurea in Economia e Commercio – Università degli Studi di Messina. 110/110 cum laude.

Carriera Accademica

12.2016	Inserimento nel ruolo di Professore Ordinario presso l'Università Mediterranea di Reggio Calabria S.S.D. SECS-S/06 - Metodi matematici dell'economia e delle scienze attuariali e finanziarie con D.R. n° 299 del 16.12.2016.
02.2014	Abilitato al ruolo di Professore Ordinario a seguito della Procedura di ASN (Abilitazione Scientifica Nazionale) per il Settore concorsuale 13/D4 - Metodi matematici dell'economia e delle scienze attuariali e finanziarie.
06.2006	Inserimento nel ruolo di Professore Associato Confermato (Commissione nazionale per i giudizi di conferma nominata con lettera del Miur n°1086 del 15 marzo 2006).
12.2002	Vincitore di un concorso pubblico per titoli ed esami di Professore Associato in Metodi matematici dell'economia e delle scienze attuariali e finanziarie, bandito dall'Università degli Studi di Messina ed espletato presso l'Università Bocconi di Milano.
11.2000	Vincitore di un concorso pubblico per titoli ed esami di Ricercatore universitario in Metodi matematici dell'economia e delle scienze attuariali e finanziarie, presso l'Università degli Studi di Messina.
02.2000	Nomina di Cultore delle discipline economico-matematiche presso la Facoltà di Economia dell'Università degli Studi di Messina.

05.1997 Vincitore Borsa di Studio per Dottorato di Ricerca XII ciclo della durata di tre anni in Strumenti matematici per l'Economia e la Finanza

Dati Bibliometrici

Scopus: 126 items, 853 citations, **h-index 17** [Author ID: 56224779700]
 GoogleScholar: 220 items, 1563 citations, **h-index 20** [Profile: eVE3u14AAAAJ]
 ResearchGate: 220 items, 1.031 citations, **ResearchGate Score 32.79** [Profile: Massimiliano_Ferrara]
 ResearcherID: P-8797-2014
 ORCID ID: 0000-0002-3663-836X

Interessi di Ricerca

Ottimizzazione e Analisi non lineare, Teoria dei Giochi, Geometria dinamica e differenziale, Sistemi dinamici, Equazioni alle Derivate Parziali, Dinamica economica, teoria della crescita e dello sviluppo sostenibile, Economia dell'innovazione.

Didattica e ricerca all'estero

2016 Visiting Professor Technische Universität Dresden – Center for Dynamics, Dresden (Germany).
 2011 Visiting Professor HARVARD University - Department of Economics, Cambridge (USA).
 2011 Visiting Professor Northeastern University - Department of Economics, Boston (USA).
 2008 Visiting Professor Calcutta Mathematical Society India, Calcutta (India).
 2008 Visiting Professor Western Michigan University – Kalamazoo, Michigan (USA).
 2007 Visiting Professor Technical University "Gh. Asachi"- Mathematical Department, Iasi (Romania).
 2006 Visiting Professor Lomonosov State University - Department of Mathematics Mosca (Russia).
 2005 Visiting Professor New Jersey Institute of Technology - Department of Mathematical Sciences, Newark (NJ) (USA).
 2004 Visiting Professor Politehnica di Bucharest, Department of Mathematics I. Bucharest (Romania).
 2003 Visiting Professor Politehnica di Bucharest, Department of Mathematics I. Ciclo di Conferenze dal titolo: "Nonholonomic Economic Systems". Bucharest (Romania).
 2002 Visiting Scholar Department of Atomic Physics, Faculty of Sciences, Eotvos Lorand University of Budapest (Ungheria).

Precedenti posizioni

07.2013-10.2015	Pro Rettore agli Affari generali e Comunicazione - Università' Mediterranea di Reggio Calabria.
07.2010-07.2013	Direttore del Dipartimento Cultura, Università, Ricerca ed Innovazione - Regione Calabria.
2007-2015	Presidente del Corso di Laurea triennale in Scienze Economiche e Coordinatore del Corso di Studio magistrale in Economics-Dipartimento di Giurisprudenza ed Economia (DIGIEC), Università' Mediterranea di Reggio Calabria
03.2010-07.2010	Fondatore e Direttore del Centro di Ricerca per le Relazioni Mediterranee (MEDAlics) - Università per stranieri "Dante Alighieri" di Reggio Calabria.
11.2009-06.2010	Pro-Rettore Vicario - Università per Stranieri "Dante Alighieri" di Reggio Calabria.
09.2008-09.2010	Coordinatore Scientifico e Didattico del Master di I livello in "Politiche di Pace e Cooperazione allo Sviluppo nell'Area del Mediterraneo", I e II edizione - Università per Stranieri "Dante Alighieri" di Reggio Calabria.
09.2009-09.2010	Coordinatore Scientifico del Master di I livello in "Marketing Intelligence e Tecniche di Mercato per la Pubblica Amministrazione" - Università Mediterranea di Reggio Calabria e co-organizzato con l'Istituto Piepoli di Roma.
2008-2010	Membro del Collegio dei Docenti del Dottorato di Ricerca in "Business History and Management" - Università Statale di Milano.
2006-2009	Membro del Collegio dei Docenti del Dottorato di Ricerca in "Metodi quantitativi per le scienze economiche e aziendali" -Università degli Studi di Messina.
2003-2007	Coordinatore del Corso integrato di Scienze del Management sanitario, Scienze umane e psicopedagogiche per il Corso di Laurea in Tecniche di Radiologia medica, per immagini e radioterapia - Università di Messina

Precedente Attività Didattica

- Teoria del Rischio (Finanziario) (7 a.a. - Università degli Studi di Messina).
- Economia applicata (4 a.a. - Università degli Studi di Messina).
- Economia aziendale (4 a.a. - Università degli Studi di Messina).
- Economia Sanitaria (4 a.a. - Università degli Studi di Messina).
- Organizzazione aziendale (4 a.a. - Università degli Studi di Messina).
- Matematica Finanziaria I e II (3 a.a. - Università degli Studi di Messina).
- Matematica per l'elaborazione di Modelli e Metodi quantitativi (3 a.a. - Università degli Studi di Messina).
- Matematica generale (2 a.a. - Università degli Studi di Messina).
- Matematica per l'economia (2 a.a. - Università degli Studi di Messina).
- Matematica per l'economia e la finanza (2 a.a. - Università degli Studi di Messina e Università degli Studi di Milano).

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- Metodi quantitativi per i giuristi (2 a.a. - Università degli Studi di Messina).
 - Metodi quantitativi per le decisioni aziendali (2 a.a. - Università degli Studi di Messina).
 - Statistica economica (2 a.a. - Università Mediterranea di Reggio Calabria).
 - Economia del Turismo (1 a.a. - Università Mediterranea di Reggio Calabria).
 - Geometria dinamica, Geometria differenziale e applicazioni all'economia (1 a.a. - Università degli Studi di Messina).
 - Modelli di Teoria delle Decisioni e Teoria dei Giochi (1 a.a. - Università degli Studi di Messina).
 - Scienza delle Finanze (1 a.a. - Università per Stranieri "Dante Alighieri" di Reggio Calabria).
 - Teoria delle Decisioni (1 a.a. - Università degli Studi di Milano).

Editorial Boards, collaborazioni editoriali

- | | | | |
|---|--|---|--|
| Editor | <ul style="list-style-type: none"> ▪ Applied Sciences (APPS) (11.2007) | | |
| Guest Editor | <ul style="list-style-type: none"> ▪ Abstract and Applied Analysis – Special Issue “Nonlinear Dynamics in Applied Sciences Systems: Advances and Perspectives” (03.2013). ▪ Symmetry –MPDI – Special issue “Optimized Machine Learning Algorithms for Modeling Dynamical Systems” (08.2019) ▪ Discrete Dynamics in Nature and Society – Special Issue “Differential Games and Dynamics in Applied Sciences” (02.2017) ▪ Minimax Theory and Its Applications – Special Issue “New Trends in Nonlinear Phenomena” (03.2017) | | |
| Membro Editorial Board - Co-Editor | <ul style="list-style-type: none"> ▪ Mathematical Problems in Engineerings (01.2018) ▪ Mathematics – MPDI (03.2018) ▪ Global and Stochastic Analysis (06.2016) ▪ SpringerPLUS (12.2015-07.2016) ▪ Annals of University of Craiova (12.2014-12.2016). ▪ Opuscula Mathematica(12.2014). ▪ Journal of Indian Academy of Mathematics (JIAM) (10.2008). ▪ Journal of the Calcutta Mathematical Society (JCMS) (10.2008). ▪ Advances in Management and Applied Economics (AMAE) (1.2010). ▪ African Journal of Science, Technology, Innovation and Development (AJSTID) (1.2010-03.2015) . | | |
| Official Reviewer: | <ul style="list-style-type: none"> ▪ Mathematical Reviews (MathSciNet), Divisione dell'American Mathematical Society. ▪ Zentralblatt MATH, rivista di recensioni scientifiche edita dalla European Mathematical Society, la Heidelberg Academy of Sciences e Fachinformationszentrum Karlsruhe. | | |
| Referee: | <table border="0"> <tr> <td> <ul style="list-style-type: none"> ▪ Acta Applicandae Mathematicae ▪ Acta Mathematica Sinica ▪ Acta Politica ▪ Annals of Operational Research ▪ Advances in Difference Equations ▪ Advances in Nonlinear Analysis ▪ Algorithms </td> <td> <ul style="list-style-type: none"> ▪ Journal of Applied Mathematics ▪ Journal of Applied Mathematics and Computing ▪ Journal of Fixed Point Theory and Applications ▪ Axiom MPDI </td> </tr> </table> | <ul style="list-style-type: none"> ▪ Acta Applicandae Mathematicae ▪ Acta Mathematica Sinica ▪ Acta Politica ▪ Annals of Operational Research ▪ Advances in Difference Equations ▪ Advances in Nonlinear Analysis ▪ Algorithms | <ul style="list-style-type: none"> ▪ Journal of Applied Mathematics ▪ Journal of Applied Mathematics and Computing ▪ Journal of Fixed Point Theory and Applications ▪ Axiom MPDI |
| <ul style="list-style-type: none"> ▪ Acta Applicandae Mathematicae ▪ Acta Mathematica Sinica ▪ Acta Politica ▪ Annals of Operational Research ▪ Advances in Difference Equations ▪ Advances in Nonlinear Analysis ▪ Algorithms | <ul style="list-style-type: none"> ▪ Journal of Applied Mathematics ▪ Journal of Applied Mathematics and Computing ▪ Journal of Fixed Point Theory and Applications ▪ Axiom MPDI | | |

- Applicable Analysis
- Applied Mathematics and Computation
- Applied Mathematics Letters
- Applied Sciences - MDPI
- Applied Mathematics E-Notes
- Asian Research Journal of Mathematics
- Boletim de Sociedade Paranaense de Matematica (BSPM)
- Boundary Value Problems
- British Journal of Economics, Business and Trade
- Bulletin of Mathematics – Institute of Mathematics, Academia Sinica
- Bulletin of the Malaysian Mathematical Sciences Society
- Cambridge University Press
- Carpathian Journal of Mathematics
- Chaos
- Chaos, Solitons and Fractals
- Collectanea Mathematica
- Complex Variables and Elliptic Equations
- Computational and Applied Mathematics
- Concurrency and Computation: Practice and Experience
- DCDIS B, Applications & Algorithms
- Discrete Dynamics in Nature and Society
- Dynamic Games and Applications
- Ecological Modelling
- Electronic Journal of Differential Equations
- Entropy
- European Journal of Operational Research
- European Journal of Pure and Applied Mathematics
- Far East Journal of Mathematical Sciences
- Global and Stochastic Analysis
- Homo Oeconomicus
- Il Politico
- Journal of Inequalities and Applications
- Journal of King Saud University – Science
- Journal of Mathematical Analysis and Applications
- Journal of Mathematical Finance
- Journal of Mathematical Physics
- Journal of Optimization Theory and Applications
- Journal of Renewable and Sustainable Energy
- Journal of the Franklin Institute
- Journal of Nonlinear Science and Applications
- Journal of the Operational Research Society of India (OPSEARCH)
- Macroeconomic Dynamics
- Matematica Bohemica
- Mathematics - MPDI
- Mathematical Biosciences
- Mathematical Modelling and Analysis
- Mathematical Methods in Economics and Finance
- Mathematical Problems in Engineerings
- Mathematical Social Sciences
- Mathematics - MPDI
- Mathematische Nachrichten
- Miskolc Mathematical Notes
- Nonlinear Analysis: Modelling and Control
- Optimization Letters
- Operations Research and Decisions
- Opuscula Mathematica
- Pacific Journal of Optimization
- R&D Management
- Rendiconti del Circolo Matematico di Palermo

- International Journal of Biomathematics
- International Journal of Dynamical Systems and Differential Equations
- International Journal of Simulation and Process Modelling (IJSPM)
- International Transactions in Operational Research
- International Journal of Control
- Italian Journal of Pure and Applied Mathematics
- Journal Mathematical and Computer Modelling
- Journal of Applied Finance and Banking
- Pure and Applied Mathematics Quaterly
- Symmetry – MPDI
- Thai Journal of Mathematics
- Journal of Business Logistics
- SCIENCE CHINA Mathematics
- Rendiconti del Comitato per gli Studi Economici dell'Università Cà Foscari
- Research in Economics
- Results in Mathematics
- Sahand Communications in Mathematical Analysis
- Soochow Journal of Mathematics
- SpringerPlus
- Soft Computing
- Theoretical economic letters
- Theoretical Mathematics and Applications
- ZAA
- Proceedings of The Royal Society A
- Iranian Journal of Science and Technology Transactions A: Science
- Rocky Mountain Mathematics Journal
- Control and Cybernetics

Progetti di ricerca internazionali e nazionali

- | | |
|-----------|--|
| 2019-2022 | Responsabile Scientifico del progetto R&D MEC – Market place Ecosostenibile Calabria finanziato ex Bando del Ministero dello Sviluppo economico – Fondo per la Crescita sostenibile Sportello Agrifood PON I&C 2014-2020 |
| 2006-2008 | Coordinatore Scientifico Italiano del progetto "Economic Geometric Dynamics" finanziato dal Ministero degli Affari Esteri (40 progetti finanziati su un totale di 140 presentati) e rientrante nell' Executive Programme of scientific and techonological cooperation between Italy and Romania during 2006-2008. |
| 2005-2008 | Coordinatore Scientifico del progetto "Econophysics models for the study of chaotic and complex social-economic systems" finanziato dal Ministero degli Affari Esteri e rientrante nel Primo Programma Esecutivo di collaborazione nei settori della Cultura, dell'Istruzione, della Scienza e della Tecnologia tra ITALIA e ESTONIA per gli anni 2005-2008. |
| 2006 | Partecipante al Programma di Ricerca di Interesse Nazionale 2006,(P.R.I.N. 2006): "Mappe monotone generalizzate: aspetti teorici ed algoritmi risolutivi". |

2004	Partecipante al Programma di Ricerca di Interesse Nazionale 2004 (P.R.I.N. 2004): "Il ruolo economico delle organizzazioni non-profit: nuovi sviluppi teorici e verifiche empiriche".
2004	Responsabile scientifico del Programma di Ricerca di Ateneo anno 2004 (PRA 2004) dell'Università degli Studi di Messina: "Modelli di Geometria Economica per lo studio di sistemi economici complessi".
2003	Responsabile scientifico del Programma di Ricerca di Ateneo anno 2003 (PRA 2003) dell'Università degli Studi di Messina: "Modelli di Teoria dei giochi per le Scienze Economiche e Sociali".
2002	Responsabile scientifico del Programma di Ricerca di Ateneo anno 2002 (PRA 2002) dell'Università degli Studi di Messina: "Modelli di Teoria dei giochi per l'elaborazione di nuovi criteri e metodologie decisionali".
2001	Responsabile scientifico del Programma di Ricerca di Ateneo anno 2001 (PRA 2001) dell'Università degli Studi di Messina: "Generalizzazioni della convessità, teoremi dell'alternativa e teoria del minimax: nuove applicazioni alla teoria dei giochi e alla teoria delle decisioni".
2001	Partecipante al Programma di Ricerca interdisciplinare di Ateneo anno 2001 (PRA 2001) dell'Università degli Studi di Messina: "Ricerche sulla produzione legislativa "ottima": aspetti giuridici e modelli quantitativi".

Premi Scientifici e Associazioni Scientifiche

2016	Silver Medal -Universiti PUTRA Malaysia-in occasione dell' <i>Invention, Research and Innovation Exhibition (PRPI) 2016</i> per il progetto di Ricerca dal titolo: " <i>Simple Motion Pursuit and Evasion Differential Games with many Pursuers on Manifolds with Euclidean Metric</i> ".
2014	Premio Internazionale "Archimedes Gold Medal" dell'Arhimede Association.
2011	Premio internazionale "Magister Artis 2011" dell'UNESCO Parigi-Valencia.
2010	Cavaliere al merito della Repubblica italiana "per meriti scientifici"
2010	Premio internazionale "Stefan Hepites" della Romanian Academy of Sciences.
Associazioni Scientifiche	<ul style="list-style-type: none"> ▪ Membro della "Mathematical Association of America" per meriti scientifici". ▪ Membro del SET - Center for Advances Studies on Economic Theory -(Centro Studi Avanzati di Economia Teorica) presso l'Università Bicocca di Milano. ▪ Membro della Balkan Society of Geometers. ▪ Socio Ordinario dell'Accademia Peloritana dei Pericolanti - Classe di Scienze Fisiche, Matematiche e Naturali.

- Presidente e Membro di Comitati organizzativi di 40 convegni internazionali.
- AMASES (Associazione per la Matematica Applicata alle Scienze Economiche e Sociali).
- SIEP (Società italiana di Economia Pubblica).
- SIMAI (Società Italiana di Matematica Applicata ed Industriale).
- WGGC (Working Group on Generalized Convexity).

Conferenze su invito

- International Workshop “Variational Analysis and Equilibrium Models in Physical and Socio-Economic Phenomena” – Università Federico II di Napoli, 19-21 giugno 2017. Conferenza dal titolo: “Continuous time economic growth models with time delays and environmental issues”.
- Conferenza su invito presso il Center for Dynamics - Technische Universität Dresden 24 giugno 2016. Conferenza dal titolo: “Economic Growth Models with Time Delay”.
- Conferenza Internazionale “Differential Geometry and Dynamical Systems – 2015”, Università Politehnica di Bucharest, 8-11 ottobre 2015. Conferenza dal titolo: “A dynamic game on green supply chain management. Advances on optimal control and its applications”. La Conferenza internazionale, in apertura, ha celebrato il 75° anniversario del Prof. Constantin Udriste, la cui Laudatio mi è stata affidata dal Comitato organizzativo e dal Senato accademico dell’Università Politehnica.
- Conferenza su Matematica Applicata “Convergence speed and population in the AK model with habit formation”, Harvard University, 25-27 gennaio 2012.
- Conferenza “Dinamiche demografiche e green economy: un modello matematico tra crescita e sviluppo sostenibile”. Istituto Lombardo - Accademia di Scienze e Lettere, Milano, Dicembre 2009.
- 11th WSEAS International Conference on Mathematical and computational methods in science and engineering “The neoclassical model with variable population change”, Morgan State University, Baltimore, USA, Novembre 2009.
- Conferenza (MSAST, Calcutta 22-23 dicembre 2008): “The neoclassical model of Solow and Swan with logistic population growth”, in occasione delle celebrazioni del centenario (1908-2008) della Calcutta Mathematical Society.
- Conferenza all’International Symposium on Recent Advances in Mathematics and its applications (ISRAMA Calcutta 19-21 dicembre 2008): “Technological diffusion in a modified Ramsey model”, in occasione delle celebrazioni del centenario (1908-2008) della Calcutta Mathematical Society.
- 1043rd American Mathematical Society Meeting Conferenza: “Economic development and sustainability in a two-sector model with variable population growth rate”, Western Michigan University – Kalamazoo, Michigan – USA, 17-19 Ottobre 2008.
- Conferenza “Environment and sustainable growth in a two-sector model with variable labor growth rate”, Facoltà di Economia dell’Università Cattolica di Piacenza 23 maggio 2008.
- Conferenze “Minimax theorems and applications” e “Voting operators in social choice theory”, Dipartimento di Scienze Economiche, Aziendali e statistiche - Facoltà di Scienze politiche dell’Università di Milano, 28 e 29 novembre 2006.

- Conferenza: "Two-sectors economy geometric dynamics", Dipartimento di Matematica per le scienze economiche e sociali dell'Università degli Studi di Bologna, 20 ottobre 2006.
- 4th International Colloquium on Mathematics in Engineering and Numerical Physics, Conferenza "Multi-time optimal growth model". Comunicazione scientifica: "Black hole models in economics ", Balkan Society of Geometers- University of Bucharest, 06-08 Ottobre 2006
- Convegno Internazionale Laptev's reading, Plenary session: "Economic geometric dynamics: a new bundle of research in economics and in mathematics", Lomonosov State University di Mosca, Luglio 2006.
- Conferenza: "Metodi e modelli quantitativi per la finanza aziendale", Facoltà di Scienze politiche dell'Università di Milano, Dipartimento di Storia ed Istituzioni, 03 febbraio 2006.
- The 5th Conference on Differential Geometry, Balkan Society of Geometers, Conferenza (Plenary session): "Mond-Weir duality in Vector Programming of the generalized invex functions on Differentiable Manifolds " Mangalia(Romania), 29 agosto - 02 settembre 2005.
- The 7th Balkan Conference on Operational Research "BACOR 05", Conferenza: "Optimality conditions and Duality in Multiobjective Programming with $(\Phi-\rho)$ -Invexity ", Constanta (Romania), 25-28 Maggio 2005.
- XI SIGEF Meeting on Techniques and Methodologies for the information and knowledge economics, Relazione scientifica: "A General Equilibrium Model by Generalized Cooperative Game", University Mediterranea of Reggio Calabria and University of Messina, 08-09 novembre 2004.
- Conferenza: "Thermodynamics and Economics: what are the possible interactions and similarities?", Dipartimento di Economia Politica e Aziendale, Facoltà di Scienze politiche dell'Università di Milano, 23 ottobre 2002.
- International Workshop CNNS'02, Conferenza: "Area Conditions Associated to Thermodynamics and economic systems", Matrafured (Ungheria), 26-29 settembre 2002.
- Conferenza: "La teoria dell'incertezza nelle organizzazioni: l'approccio fuzzy nelle decisioni economiche e sociali.", Facoltà di Giurisprudenza "Magna Graecia" di Catanzaro, Corso di Laurea in Scienze dell'Amministrazione, 01 giugno 2002.
- Conferenza: "Balanced and Super-Balanced Transferable Utility games: a microeconomic model to study one-good market.", Istituto di Metodi quantitativi (IMQ), Università Bocconi, Milano, 14 dicembre 2001.
- Seminario matematico - Conferenza: "Invexity in optimization theory: new global minima properties.", Università di Hagen (Germania), 03 Aprile 2001.

(Ultimo aggiornamento: settembre 2019)

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali.

F.to Prof. Massimiliano Ferrara

Publicazioni in evidenza di Massimiliano Ferrara

[Lista completa: https://www.unirc.it/scheda_persona.php?id=787]

Autore e coautore di **208 lavori scientifici** su riviste peer-reviewed, tra cui:

- Ferrara M., Salimi M., Differential Game of Optimal Pursuit of One Evader by many Pursuers, "International Journal of Game Theory", 48(2), 2019, pp.481-490
- Ferrara M., Salahshour S., Ahmadian A., Salimi M., Baleanu D., Asymptotic solutions of fractional interval differential equations with nonsingular kernel derivative, "CHAOS", 29 (8), 083110 (2019)
- Ferrara M., Ibragimov G., Kuchkrov A., Pansera B.A., Simple Motion Evasion Differential Game of Many Pursuers and Evaders with Integral Constraints, "Dynamic Games and Applications", n.8, 2018, pp. 352-378
- Ferrara M., Mavilia R., Pansera B.A., Extracting knowledge patterns with a social network analysis approach: an alternative methodology for assessing the impact of power inventors, "Scientometrics", 2017, vol. 113, pp. 1593-1625.
- Ferrara M., Molica Bisci G, Subelliptic and parametric equations on Carnot groups, "Proceedings of the American Mathematical Society", n. 144, 2016, pp. 3035-3045, ISSN: 1088-6826.
- Ferrara M., Mavilia R., Lamperti F., "Looking for the best performers: a pilot study towards the Evaluation of Science Parks", Scientometrics, n. 106, 2016, pp. 717-750, ISSN: 1558-2861.
- Ferrara M., Zhang B, Xiang M, Existence of solutions for Kirchhoff type problem involving thenon-local fractional p-Laplacian, "Journal of mathematical analysis and applications", n. 424, 2015, pp. 1021-1041, ISSN: 0022-247X.
- Ferrara M., Zhang B, Xiang M, Multiplicity results for the nonhomogeneous fractional p-Kirchhoff equations with concave-convex nonlinearities, "Proceedings A - Royal Society of London: Mathematical, Physical and Engineering Sciences", n. 471: 20150034, 2015, ISSN: 1471-2946.
- Ferrara M., Stefanescu A, Equilibrium in Choice of Generalized Games, in: P. Cartier Et Al. (eds.), Mathematics in the 21th Century, Springer-Verlag, Berlin Heidelberg (DEU), Vol. 98, 2015, pp. 19-30, ISBN: 978-3-0348-0858-3.
- Ferrara M., Guerrini L, Sodini M, Nonlinear dynamics in a Solow model with delay and non-convex technology, "Applied mathematics and computation", n. 228, 2014, pp. 1-12, ISSN: 0096-3003.
- Ferrara M., Khademloo S, Heidarkhani S, Multiplicity results for perturbed fourth-order Kirchhoff type elliptic problems, "Applied mathematics and computation", n. 234, 2014, pp. 316-325, ISSN: 1873-5649.
- Ferrara M., Bianca C, Guerrini L, Udriste C, Nonlinear Dynamics in Applied Sciences Systems: Advances and Perspectives, "Abstract and applied analysis", Introduction to special issue of Abstract and Applied Analysis by title: Nonlinear Dynamics in Applied Sciences Systems: Advances and Perspectives, 2014, ISSN: 1085-3375.

- Ferrara M., Guerrini L, Sodini M, Stability and nonlinear dynamics in a Solow model with pollution, "Nonlinear analysis", n. 19, 2014, pp. 565-577, ISSN: 1392-5113.
- Ferrara M., Stefanescu A, Stefanescu M V, Multiobjective programming with new invexities, "Optimization letters", n. 7, 2013, pp. 855-870, ISSN: 1862-4472.
- Ferrara M., Bianca C, Guerrini L, High-order moments conservation in thermostatted kinetic models, "Journal of global optimization", 2013, ISSN: 0925-5001.
- Ferrara M., Stefanescu A, Stefanescu M. V., Equilibria of Games in Choice Form, "Journal of optimization theory and applications", n. 155, 2012, pp. 1060-1072, ISSN: 0022-3239.
- Ferrara M., Munteanu F, Udriste C, Zugravescu D, Controllability of a nonholonomic macroeconomic system, "Journal of optimization theory and applications", n. 154, 2012, pp. 1036-1054, ISSN: 0022-3239.
- Ferrara M., Caristi, G, Stefanescu, A, Mathematical programming with (ϕ, ρ) -invexity, in: Igor, V., Konnov, Dinh, The, Luc, Alexander, M., Rubinov, Generalized convexity and related topics. Lecture Notes in Economics and Mathematical Systems, Springer, Berlin (DEU), Vol. 583, 2007, pp. 167-176, ISBN: 9783540370079.
- Ferrara M., Stefanescu A., Implementation of voting operators, "Journal of Mathematical Economics", n. 43, 2006, pp. 315-325, ISSN: 0304-4068.

(Ultimo aggiornamento: settembre 2019)

Curriculum Vitae

Massimiliano Ferrara

Personal

Name: Massimiliano
 Last Name: Ferrara
 Date of birth: 8.6.1972
 Nationality: Italian
 Languages: Italian (mother tongue), English (fuent), French (intermediate)

Contact

Address: Dipartimento di Giurisprudenza ed Economia e Scienze Umane (Di.Gi.ES) - Università Mediterranea di Reggio Calabria – Cittadella Universitaria, Via dell'Università 25 - 89124 Reggio Calabria, Italia
 Phone: (+39) 0965-1695446 (uff. Decisions_LAB) e (+39) 0965-1695358
 Fax: (+39) 0965-45268
 Email: massimiliano.ferrara@unirc.it
 Website: https://www.unirc.it/scheda_persona.php?id=787

Current positions

2018-current Chairman Department of Law, Economics ad Human Sciences – University Mediterranea
 2017-current AMASES Scientific Committee Member
 2016-current Faculty Member of the Ph.D. programme in “Law and Economics”- University Mediterranea of Reggio Calabria
 2015-current Director of the Master Programme in Economics, DiGiEc - University Mediterranea of Reggio Calabria (Italy)
 Member of University Mediterranea of Reggio Calabria Academic Senate
 2013-current Research Affiliate - The Invernizzi Center for Research in Innovation, Organization, Strategy and Entrepreneurship (ICRIOS), Università Commerciale L. Bocconi.
 2007-current Full Professor of Mathematical Economics at University Mediterranea of Reggio Calabria (Italy).

Education

02.2001 Ph.D. in “Mathematical Methods for Economics and Finance”- University of Messina.
 01.2001 Advanced Course in "Mathematical Models in Finance"- The Scuola Normale of Pisa.

- 07.1998 Advanced Course in Foundations and developments of mathematical economics - University of Naples Federico II.
- 10.1995 Master Degree in Economics - University of Messina.
Summa cum laude

Academic career

- 12.2016 Full Professor of Mathematical Economics at University Mediterranea of Reggio Calabria, Italy.
- 02.2014 Full Professor (Scientific National Qualification) in 13/D4 - Mathematical Methods for Economics, Actuarial Science and Finance.
- 06.2006 Associate Professor (National Commission appointed by the Ministry of Education, University and Research-MIUR letter No. 1086, March 25th, 2006).
- 12.2002 Associate Professor in Mathematical Methods for Economics, Actuarial Science and Finance - University of Messina and based in the Bocconi University in Milan.
- 11.2000 Assistant Professor in Mathematical Methods for Economics, Actuarial Science and Finance - University of Messina.
- 02.2000 Teaching assistant in economic-mathematical courses - Faculty of Economics - University of Messina.
- 05.1997 XXIX PhD programme in "Mathematical Methods for Economics and Finance"- University of Messina.

Bibliometric data

- Scopus: 126 items, 853 citations, **h-index 17** [Author ID: 56224779700]
- GoogleScholar: 220 items, 1563 citations, **h-index 20** [Profile: eVE3u14AAAA]
- ResearchGate: 220 items, 1.031 citations, **ResearchGate Score 32.79** [Profile: Massimiliano_Ferrara]
- ResearcherID: P-8797-2014
- ORCID ID: 0000-0002-3663-836X

Research Interests

Mathematical Economics, Game Theory, Optimization Theory, Partial Differential Equations, Nonlinear Analysis, Dynamical Systems, Patterns of Growth and Sustainable Development, Applied Economics.

Visiting appointments

- 2016 Visiting Professor Technische Universität Dresden – Center for Dynamics, Dresden (Germany).
- 2011 Visiting Professor HARVARD University - Department of Economics, Cambridge (USA).

2011	Visiting Professor Northeastern University - Department of Economics, Boston (USA).
2008	Visiting Professor Calcutta Mathematical Society India, Calcutta (India).
2008	Visiting Professor Western Michigan University - Kalamazoo, Michigan (USA).
2007	Visiting Professor Technical University "Gh. Asachi"- Mathematical Department, Iasi (Romania).
2006	Visiting Professor Lomonosov State University - Department of Mathematics Mosca (Russia).
2005	Visiting Professor New Jersey Institute of Technology - Department of Mathematical Sciences, NewArk (NJ) (USA).
2004	Visiting Professor Politehnica di Bucharest, Department of Mathematics I. Bucharest (Romania).
2003	Visiting Professor Politehnica di Bucharest, Department of Mathematics I. Ciclo di Conferenze dal titolo: "Nonholonomic Economic Systems". Bucharest (Romania).
2002	Visiting Scholar Department of Atomic Physics, Faculty of Sciences, Eotvos Lorand University of Budapest (Ungheria).

Past positions

2013-2016	Faculty Member of the Ph.D. programme in "Urban Regeneration and Economic Development" - University Mediterranea of Reggio Calabria (Italy)
2010-2015	Faculty Member of the Ph.D. programme in "Management and Economics"- University of Macerata (Italy)
2009-2014	Faculty Member of the Ph.D. programme in "Quantitative methods in Economic Policy"- Catholic University of Milan, in Piacenza-Cremona (Italy)
2009-2012	Professor of Quantitative Methods in Law at University Mediterranea of Reggio Calabria (Italy).
2010-2013	Head of "Culture, Research and Innovation Department" of Calabria Region, Italy
11.2009-06.2010	Vice-Provost at University for Foreigners "Dante Alighieri" of Reggio Calabria.
09.2008-09.2010	Director of I and II edition of the Postgraduate Master Degree Programme on Peace Policies and Development Cooperation in the Mediterranean Area, University for Foreigners "Dante Alighieri" of Reggio Calabria.
09.2009-09.2010	Director of the Postgraduate Degree Programme on Marketing Intelligence and Techniques in Public Administration, co-organised by Istituto Piepoli and University Mediterranea of Reggio Calabria.
2008-2010	Member of teaching body of the Ph.D. programme in "Business History and Management" – University of Milan.
2006-2009	Faculty Member of the Ph.D. programme in "Quantitative Methods for Economics and Management" – University of Messina.

2003-2007 Coordinator of Health Management Sciences, Human Sciences and Educational psychology Courses – University of Messina.

Past Teaching Experience

- Theory of (Financial) Risk (taught for 7 a.y. in University of Messina).
- Applied Economics (taught for 4 a.y. in University of Messina).
- Business Organisation (taught for 4 a.y. in University of Messina).
- Health Economics (taught for 4 a.y. in University of Messina).
- Management (taught for 4 a.y. in University of Messina).
- Mathematical Finance I and II (taught for 3 a.y. in University of Messina).
- Mathematics for Modelling and Quantitative Methods (taught for 3 a.y. in University of Messina).
- Quantitative Methods for Business Decisions (taught for 3 a.y. in University of Messina).
- Decision Theory (taught for 2 a.y. in University of Milan).
- Mathematics (taught for 2 a.y. in University of Messina).
- Mathematical Economics (taught for 2 a.y. in University of Messina).
- Mathematics for Economics and Finance (taught for 2 a.y. in University of Messina and University of Milan).
- Quantitative Methods in Law (taught for 2 a.y. in University of Messina).
- Statistics for Economics (taught for 2 a.y. in University Mediterranea of Reggio Calabria).
- Decision Theory and Game Theory Models (taught for 1 a.y. in University of Messina).
- Dynamic geometry, Differential geometry for economics (taught for 1 a.y. in University of Messina).
- Public Finance (taught for 1 a.y. in University for Foreigner Dante Alighieri).
- Tourism Economics (taught for 1 a.y. in University Mediterranea of Reggio Calabria).

Professional Services and Activities

- | | |
|------------------------------------|--|
| Editor | ▪ Applied Sciences (APPS) (11.2007) |
| Guest Editor | ▪ Abstract and Applied Analysis – Special Issue “Nonlinear Dynamics in Applied Sciences Systems: Advances and Perspectives” (03.2013). |
| | ▪ Symmetry –MPDI – Special issue “Optimized Machine Learning Algorithms for Modeling Dynamical Systems” (08.2019) |
| | ▪ Discrete Dynamics in Nature and Society – Special Issue “Differential Games and Dynamics in Applied Sciences” (02.2017) |
| | ▪ Minimax Theory and Its Applications – Special Issue “New Trends in Nonlinear Phenomena” (03.2017) |
| Membro Editorial Board - Co-Editor | ▪ Mathematical Problems in Engineerings (01.2018) |
| | ▪ Mathematics – MPDI (03.2018) |
| | ▪ Global and Stochastic Analysis (06.2016) |
| | ▪ SpringerPLUS (12.2015-07.2016) |
| | ▪ Annals of University of Craiova (12.2014-12.2016). |
| | ▪ Opuscula Mathematica(12.2014). |
| | ▪ Journal of Indian Academy of Mathematics (JIAM) (10.2008). |
| | ▪ Journal of the Calcutta Mathematical Society (JCMS) (10.2008). |
| | ▪ Advances in Management and Applied Economics (AMAE) (1.2010). |

- African Journal of Science, Technology, Innovation and Development (AJSTID) (1.2010-03.2015) .

Official Reviewer:

- Mathematical Reviews (MathSciNet), Divisione dell'American Mathematical Society.
- Zentralblatt MATH, rivista di recensioni scientifiche edita dalla European Mathematical Society, la Heidelberg Academy of Sciences e Fachinformationszentrum Karlsruhe.

Referee:

- Acta Applicandae Mathematicae
- Acta Mathematica Sinica
- Acta Politica
- Annals of Operational Research
- Advances in Difference Equations
- Advances in Nonlinear Analysis
- Algorithms
- Applicable Analysis
- Applied Mathematics and Computation
- Applied Mathematics Letters
- Applied Sciences - MDPI
- Applied Mathematics E-Notes
- Asian Research Journal of Mathematics
- Boletim de Sociedade Paranaense de Matematica (BSPM)
- Boundary Value Problems
- British Journal of Economics, Business and Trade
- Bulletin of Mathematics – Institute of Mathematics, Academia Sinica
- Bulletin of the Malaysian Mathematical Sciences Society
- Cambridge University Press
- Carpathian Journal of Mathematics
- Chaos
- Chaos, Solitons and Fractals
- Collectanea Mathematica
- Complex Variables and Elliptic Equations
- Computational and Applied Mathematics
- Concurrency and Computation: Practice and Experience
- DCDIS B, Applications & Algorithms
- Journal of Applied Mathematics
- Journal of Applied Mathematics and Computing
- Journal of Fixed Point Theory and Applications
- Axiom MPDI
- Journal of Inequalities and Applications
- Journal of King Saud University – Science
- Journal of Mathematical Analysis and Applications
- Journal of Mathematical Finance
- Journal of Mathematical Physics
- Journal of Optimization Theory and Applications
- Journal of Renewable and Sustainable Energy
- Journal of the Franklin Institute
- Journal of Nonlinear Science and Applications
- Journal of the Operational Research Society of India (OPSEARCH)
- Macroeconomic Dynamics
- Matematica Bohemica
- Mathemstics - MPDI
- Mathematical Biosciences
- Mathematical Modelling and Analysis
- Mathematical Methods in Economics and Finance
- Mathematical Problems in Engineerings
- Mathematical Social Sciences

- Discrete Dynamics in Nature and Society
- Dynamic Games and Applications
- Ecological Modelling
- Electronic Journal of Differential Equations
- Entropy
- European Journal of Operational Research
- European Journal of Pure and Applied Mathematics
- Far East Journal of Mathematical Sciences
- Global and Stochastic Analysis
- Homo Oeconomicus
- Il Politico
- International Journal of Biomathematics
- International Journal of Dynamical Systems and Differential Equations
- International Journal of Simulation and Process Modelling (IJSPM)
- International Transactions in Operational Research
- International Journal of Control
- Italian Journal of Pure and Applied Mathematics
- Journal Mathematical and Computer Modelling
- Journal of Applied Finance and Banking
- Pure and Applied Mathematics Quaterly
- Symmetry – MPDI
- Thai Journal of Mathematics
- Journal of Business Logistics
- SCIENCE CHINA Mathematics
- Mathematics - MPDI
- Mathematische Nachrichten
- Miskolc Mathematical Notes
- Nonlinear Analysis: Modelling and Control
- Optimization Letters
- Operations Research and Decisions
- Opuscula Mathematica
- Pacific Journal of Optimization
- R&D Management
- Rendiconti del Circolo Matematico di Palermo
- Rendiconti del Comitato per gli Studi Economici dell'Università Cà Foscari
- Research in Economics
- Results in Mathematics
- Sahand Communications in Mathematical Analysis
- Soochow Journal of Mathematics
- SpringerPlus
- Soft Computing
- Theoretical economic letters
- Theoretical Mathematics and Applications
- ZAA
- Proceedings of The Royal Society A
- Iranian Journal of Science and Technology Transactions A: Science
- Rocky Mountain Mathematics Journal
- Control and Cybernetics

Editor

- Applied Sciences (APPS) (11.2007- current)

Guest Editor

- Nonlinear Analysis and Differential Equations (05.2014-02.2017).
- Abstract and Applied Analysis – Special Issue “Nonlinear Dynamics in Applied Sciences Systems: Advances and Perspectives” (03.2013)
- Discrete Dynamics in Nature and Society – Special Issue “Differential Games and Dynamics in Applied Sciences” (02.2017)

- Board Member
- Minimax Theory and Its Applications – Special Issue “New Trends in Nonlinear Phenomena” (03.2017)
 - Global Stochastic Analysis (06.2016-current)
 - SpringerPLUS (12.2015 – 07.2016)
 - Annals of University of Craiova (12.2014-12.2017)
 - Opuscula Mathematica(12.2014-current)
 - International Journal of Functional Analysis, Operator Theory and Applications (IJFAOTA) (11.2008-12.2017)
 - Universal Journal of Mathematics and Mathematical (8.2011-current)
 - Far East Journal of Mathematical Sciences (FJMS) (8.2011-current)
 - Journal of Indian Academy of Mathematics (JIAM) (10.2008-current)
 - Journal of the Calcutta Mathematical Society (JCMS) (10.2008-current)
 - Advances in Management and Applied Economics (AMAE) (1.2010-current)
 - African Journal of Science, Technology, Innovation and Development (AJSTID) (1.2010 to 3.2015)
- Associate Editor:
- BIO Optimization Theory and Applications (2.2013-current)
 - Studies in Mathematical Sciences (8.2012-12.2016)
 - Progress in applied mathematics (8.2012-12.2016)
- Official Reviewer:
- Mathematical Reviews (MathSciNet), Division of the American Mathematical Society
 - Zentralblatt MATH, reviews scientific journal published by the European Mathematical Society, the Heidelberg Academy of Sciences and Fachinformationszentrum Karlsruhe
- Referee:
- Acta Applicandae Mathematicae
 - Acta Mathematica Sinica
 - Acta Politica
 - Advances in Difference Equations
 - Advances in Nonlinear Analysis
 - Algorithms
 - Applicable Analysis
 - Applied Mathematics and Computation
 - Applied Mathematics Letters
 - Applied Sciences - MDPI
 - Applied Mathematics E-Notes
 - Asian Research Journal of Mathematics
 - Boletim de Sociedade Paranaense de Matematica (BSPM)
 - Boundary Value Problems
 - British Journal of Economics, Business and Trade
 - Journal of Applied Mathematics
 - Journal of Applied Mathematics and Computing
 - Journal of Fixed Point Theory and Applications
 - Journal of Inequalities and Applications
 - Journal of King Saud University – Science
 - Journal of Mathematical Analysis and Applications
 - Journal of Mathematical Finance
 - Journal of Mathematical Physics
 - Journal of Optimization Theory and Applications
 - Journal of Renewable and Sustainable Energy

- Bulletin of Mathematics – Institute of Mathematics, Academia Sinica
- Bulletin of the Malaysian Mathematical Sciences Society
- Cambridge University Press
- Carpathian Journal of Mathematics
- Chaos, Solitons and Fractals
- Collectanea Mathematica
- Complex Variables and Elliptic Equations
- Concurrency and Computation: Practice and Experience
- DCDIS B, Applications & Algorithms
- Discrete Dynamics in Nature and Society
- Ecological Modelling
- Electronic Journal of Differential Equations
- Entropy
- European Journal of Operational Research
- European Journal of Pure and Applied Mathematics
- Far East Journal of Mathematical Sciences
- Global and Stochastic Analysis
- Homo Oeconomicus
- Il Politico
- International Journal of Biomathematics
- International Journal of Dynamical Systems and Differential Equations
- International Journal of Simulation and Process Modelling (IJSPM)
- International Transactions in Operational Research
- Italian Journal of Pure and Applied Mathematics
- Journal Mathematical and Computer Modelling
- Journal of Applied Finance and Banking
- Journal of the Franklin Institute
- Journal of Nonlinear Science and Applications
- Journal of the Operational Research Society of India (OPSEARCH)
- Macroeconomic Dynamics
- Matematica Bohemica
- Mathematical Biosciences
- Mathematical Modelling and Analysis
- Mathematical Methods in Economics and Finance
- Mathematical Problems in Engineering
- Mathematical Social Sciences
- Mathematics - MPDI
- Mathematische Nachrichten
- Miskolc Mathematical Notes
- Nonlinear Analysis: Modelling and Control
- Optimization Letters
- Operations Research and Decisions
- Opuscula Mathematica
- Pacific Journal of Optimization
- R&D Management
- Rendiconti del Circolo Matematico di Palermo
- Rendiconti del Comitato per gli Studi Economici dell'Università Cà Foscari
- Research in Economics
- Sahand Communications in Mathematical Analysis
- Soochow Journal of Mathematics
- SpringerPlus
- Theoretical economic letters
- Theoretical Mathematics and Applications
- ZAA

Research Projects

2019-2022	Scientific Coordinator R&D Project MEC – Market place Ecosostenibile Calabria supported by Development Ministry of Italy – Fondo per la Crescita sostenibile Sportello Agrifood PON I&C 2014-2020
2006-2008	Italian Scientific Coordinator of "Economic Geometric Dynamics" project, funded by Italian Ministry of Foreign Affairs under the Executive Programme of scientific and technological cooperation between Italy and Romania during 2006-2008.
2005-2008	Scientific Coordinator of "Econophysics models for the study of chaotic and complex social-economic systems" project, funded by Italian Ministry of Foreign Affairs.
2006	Team Member of the project: "Mappe monotone generalizzate: aspetti teorici ed algoritmi risolutivi" under P.R.I.N. 2006.
2004	Team Member of the project: "Il ruolo economico delle organizzazioni non-profit: nuovi sviluppi teorici e verifiche empiriche" under P.R.I.N. 2004.
2004	Scientific Coordinator of PRA 2004 University of Messina: "Modelli di Geometria Economica per lo studio di sistemi economici complessi".
2003	Scientific Coordinator of PRA 2003 University of Messina: "Modelli di Teoria dei giochi per le Scienze Economiche e Sociali".
2002	Scientific Coordinator of PRA 2002 University of Messina: "Modelli di Teoria dei giochi per l'elaborazione di nuovi criteri e metodologie decisionali".
2001	Scientific Coordinator of PRA 2001 University of Messina: "Generalizzazioni della convessità, teoremi dell'alternativa e teoria del minimax: nuove applicazioni alla teoria dei giochi e alla teoria delle decisioni".
2001	Member of PRA 2001 University of Messina: "Ricerche sulla produzione legislativa "ottima": aspetti giuridici e modelli quantitativi".

Awards and

2016	Silver Medal -Universiti PUTRA Malaysia- <i>Invention, Research and Innovation Exhibition</i> (PRPI) 2016 Research Project: " <i>Simple Motion Pursuit and Evasion Differential Games with many Pursuers on Manifolds with Euclidean Metric</i> ".
2014	"Archimedes Gold Medal" by Arhimede Association
2011	International Award "Magister Artis 2011" by UNESCO Paris-Valencia
2010	Knight of Republic of Italy for "scientific deserves"
2010	"Stefan Hepites Award" by Romanian Academy of Sciences
Memberships	<ul style="list-style-type: none"> ▪ Mathematical Association of America. ▪ SET - Center for Advances Studies on Economic Theory - University of Milan-Bicocca. ▪ Balkan Society of Geometers.

- Member of Accademia Peloritana dei Pericolanti – Science Division.
- Head and Member of Organizing Committee related to International Scientific Meetings.
- AMASES (Associazione per la Matematica Applicata alle Scienze Economiche e Sociali).
- SIEP (Società italiana di Economia Pubblica).
- SIMAI (Società Italiana di Matematica Applicata ed Industriale).
- WGGC (Working Group on Generalized Convexity).

Invited Seminars

- International Workshop “Variational Analysis and Equilibrium Models in Physical and Socio-Economic Phenomena” – Università Federico II di Napoli, June 19-21, 2017. Conference on: “Continuous time economic growth models with time delays and environmental issues”.
- Center for Dynamics - Technische Universität Dresden. Conference on: “Economic Growth Models with Time Delay”, 24 June 2016.
- International Conference on “Differential Geometry and Dynamical Systems – 2015”, Politehnica University of Bucharest, 8-11 October 2015.
- Conference on Applicata “Convergence speed and population in the AK model with habit formation”, Harvard University, 25-27 January 2012.
- Conference on “Dinamiche demografiche e green economy: un modello matematico tra crescita e sviluppo sostenibile”. Istituto Lombardo - Accademia di Scienze e Lettere, Milan, December 2009.
- 11th WSEAS International Conference on Mathematical and computational methods in science and engineering “The neoclassical model with variable population change”, Morgan State University, Baltimore, USA, November 2009.
- Conference (MSAST, Calcutta 22-23 December 2008): “The neoclassical model of Solow and Swan with logistic population growth”, Calcutta Mathematical Society.
- Conference during the International Symposium on Recent Advances in Mathematics and its applications (ISRAMA Calcutta 19-21 December 2008), Calcutta Mathematical Society.
- 1043rd American Mathematical Society Meeting, Conference on: “Economic development and sustainability in a two-sector model with variable population growth rate”, Western Michigan University – Kalamazoo, Michigan – USA, 17-19 October 2008.
- Conference on “Environment and sustainable growth in a two-sector model with variable labor growth rate”, Catholic University of the Sacred Heart in Piacenza 23 May 2008.
- Conference on “Minimax theorems and applications” e “Voting operators in social choice theory”, University of Milan, 28-29 November 2006.
- Conference on “Two-sectors economy geometric dynamics”, University of Bologna, 20 October 2006.
- 4th International Colloquium on Mathematics in Engineering and Numerical Physics, Conference “Multi-time optimal growth model”. Talk: “Black hole models in economics”, Balkan Society of Geometers- University of Bucharest, 06-08 October 2006
- International Conference Laptev’s reading, Plenary session: “Economic geometric dynamics: a new bundle of research in economics and in mathematics”, Lomonosov State University of Moscow, July 2006.

- Conference on “Metodi e modelli quantitativi per la finanza aziendale”, University of Milan, 3 February 2006.
- The 5th Conference on Differential Geometry, Balkan Society of Geometers, Conferenza (Plenary session) dal titolo: "Mond-Weir duality in Vector Programming of the generalized invex functions on Differentiable Manifolds " Mangalia(Romania), 29 August - 02 September 2005.
- The 7th Balkan Conference on Operational Research "BACOR 05", Conferenza: "Optimality conditions and Duality in Multiobjective Programming with $(\Phi-\rho)$ -Invexity ", Constanta (Romania), 25-28 May 2005.
- XI SIGEF Meeting on Techniques and Methodologies for the information and knowledge economics, Relazione scientifica dal titolo: "A General Equilibrium Model by Generalized Cooperative Game", University Mediterranea of Reggio Calabria and University of Messina, 08-09 November 2004.
- Conference on “Thermodynamics and Economics: what are the possible interactions and similarities?”, University of Milan, 23 October 2002.
- International Workshop CNNS'02, Conference: “Area Conditions Associated to Thermodynamics and economic systems”, Matrafured (Hungary), 26-29 September 2002.
- Conferenza: “La teoria dell'incertezza nelle organizzazioni: l'approccio fuzzy nelle decisioni economiche e sociali.”, University "Magna Græcia" of Catanzaro,, 01 June 2002.
- Conference: Balanced and Super-Balanced Transferable Utility games: a microeconomic model to study one-good market.”, Bocconi University of Milan, 14 December 2001.
- Conference: "Invexity in optimization theory: new global minima properties.", University of Hagen(Germany), 03 April 2001.

(Last updated: September 2019)

I hereby authorize the treatment of my personal data according to the current italian directives Dlgs 196/2003 “Privacy policy”.

Signed Prof. Massimiliano Ferrara

Selected publications of Massimiliano FERRARA

[Full list: https://www.unirc.it/scheda_persona.php?id=787]

Author of **208 papers** on peer reviewed journals (ISI) and scientific books, selected papers:

- Ferrara M., Salimi M., Differential Game of Optimal Pursuit of One Evader by many Pursuers, "International Journal of Game Theory", 48(2), 2019, pp.481-490
- Ferrara M., Salahshour S., Ahmadian A., Salimi M., Baleanu D., Asymptotic solutions of fractional interval differential equations with nonsingular kernel derivative, "CHAOS", 29 (8), 083110 (2019)
- Ferrara M., Ibragimov G., Kuchkrov A., Pansera B.A., Simple Motion Evasion Differential Game of Many Pursuers and Evaders with Integral Constraints, "Dynamic Games and Applications", n.8, 2018, pp. 352-378
- Ferrara M., Mavilia R., Pansera B.A., Extracting knowledge patterns with a social network analysis approach: an alternative methodology for assessing the impact of power inventors, "Scientometrics", 2017, 2017, vol. 113, p. 1593-1625.
- Ferrara M., Molica Bisci G, Subelliptic and parametric equations on Carnot groups, "Proceedings of the American Mathematical Society", n. 144, 2016, pp. 3035-3045, ISSN: 1088-6826.
- Ferrara M., Mavilia R., Lamperti F., "Looking for the best performers: a pilot study towards the Evaluation of Science Parks", Scientometrics, n. 106, 2016, pp. 717-750, ISSN: 1558-2861
- Ferrara M., Zhang B, Xiang M, Existence of solutions for Kirchhoff type problem involving the non-local fractional p-Laplacian, "Journal of mathematical analysis and applications", n. 424, 2015, pp. 1021-1041, ISSN: 0022-247X.
- Ferrara M., Zhang B, Xiang M, Multiplicity results for the nonhomogeneous fractional p-Kirchhoff equations with concave-convex nonlinearities, "Proceedings A - Royal Society of London: Mathematical, Physical and Engineering Sciences", n. 471: 20150034, 2015, ISSN: 1471-2946.
- Ferrara M., Stefanescu A, Equilibrium in Choice of Generalized Games, in: P. Cartier Et Al. (eds.), Mathematics in the 21th Century, Springer-Verlag, Berlin Heidelberg (DEU), Vol. 98, 2015, pp. 19-30, ISBN: 978-3-0348-08583-3.
- Ferrara M., Guerrini L, Sodini M, Nonlinear dynamics in a Solow model with delay and non-convex technology, "Applied mathematics and computation", n. 228, 2014, pp. 1-12, ISSN: 0096-3003.
- Ferrara M., Khademloob S, Heidarkhani S, Multiplicity results for perturbed fourth-order Kirchhoff type elliptic problems, "Applied mathematics and computation", n. 234, 2014, pp. 316-325, ISSN: 1873-5649.
- Ferrara M., Bianca C, Guerrini L, Udriste C, Nonlinear Dynamics in Applied Sciences Systems: Advances and Perspectives, "Abstract and applied analysis", Introduction to

- special issue of Abstract and Applied Analysis by title: Nonlinear Dynamics in Applied Sciences Systems: Advances and Perspectives, 2014, ISSN: 1085-3375.
- Ferrara M., Guerrini L, Sodini M, Stability and nonlinear dynamics in a Solow model with pollution, "Nonlinear analysis", n. 19, 2014, pp. 565-577, ISSN: 1392-5113.
 - Ferrara M., Stefanescu A, Stefanescu M V, Multiobjective programming with new invexities, "Optimization letters", n. 7, 2013, pp. 855-870, ISSN: 1862-4472.
 - Ferrara M., Bianca C, Guerrini L, High-order moments conservation in thermostatted kinetic models, "Journal of global optimization", 2013, ISSN: 0925-5001.
 - Ferrara M., Stefanescu A, Stefanescu M. V., Equilibria of Games in Choice Form, "Journal of optimization theory and applications", n. 155, 2012, pp. 1060-1072, ISSN: 0022-3239.
 - Ferrara M., Munteanu F, Udriste C, Zugravescu D, Controllability of a nonholonomic macroeconomic system, "Journal of optimization theory and applications", n. 154, 2012, pp. 1036-1054, ISSN: 0022-3239.
 - Ferrara M., Caristi, G, Stefanescu, A, Mathematical programming with (ϕ, ρ) -invexity, in: Igor, V., Konnov, Dinh, The, Luc, Alexander, M., Rubinov, Generalized convexity and related topics. Lecture Notes in Economics and Mathematical Systems, Springer, Berlin (DEU), Vol. 583, 2007, pp. 167-176, ISBN: 9783540370079.
 - Ferrara M., Stefanescu A., Implementation of voting operators, "Journal of Mathematical Economics", n. 43, 2006, pp. 315-325, ISSN: 0304-4068.

(Last update: September 2019)