

CV of Alessandro Pluchino

11/07/1967: Born in Modica (RG, Italy) ;

1990-1994: Degree in Physics at University of Catania;

1995-2001: Private activity as co-founder of two different software houses (Worksoft S.A.S – Trecastagni, CT – and Zetynet P.S.C.R.L. – Modica, RG): dealer Autodesk with Asia Computers; teacher in courses of Autocad 2D & 3D; development of CAD projects (2D-3D), databases, internet websites, etc...

2001: Winner at the National Competition for Teaching at Secondary School;

2001-2008: Permanent position as Teacher of Mathematics and Physics (A049) at the "Istituto Statale d'Arte" in Catania;

2002-2005: Ph.D. in Theoretical Physics at the Faculty of Science at the Catania University;

2005-2007: Post-doc fellowship FIS/02 "Fisica teorica, modelli e metodi matematici" at the Department of Physics and Astronomy of the University of Catania;

2007-2008: Collaboration research with the Department of Physics and Astronomy of the University of Catania;

2008: Post-doc fellowship FIS/02 "Fisica teorica, modelli e metodi matematici" at the Department of Physics and Astronomy of the University of Catania;

Since 01/01/2009: Permanent position as researcher scientist and assistant professor at the Department of Physics and Astronomy of the University of Catania;

Since October 2015: Associate Professor of theoretical physics at the Department of Physics and Astronomy of the University of Catania;

Since 2002: Association with INFN (National Institute for Nuclear Physics), Sezione di Catania;

Since 2014: Local coordinator of the INFN Projects "PIECES" and "PLEXNET" ;

Since 2010: Co-Director of the LIPARI INTERNATIONAL SCHOOL ON COMPLEX SYSTEMS - Lipari, Italy;

2010: Winner (with Andrea Rapisarda and Cesare Garofalo) of the "Ig-Nobel Prize 2010 for Management" - Harvard University and M.I.T. (Boston, USA) <http://www.pluchino.it/ignobel.html>;

Since 2014: Member of the Interdisciplinary Research Center about Diagnosis and Terapy of Brain Tumors, UNiversity of Catania;

2014-2016: Partecipation at the research project "Multi-layer Networks and Efficient Decision Dynamics" supported by Ateneo di Catania;

Since 2015: Member of the Interdisciplinary Study Center about Pascal and '600 (CESPES), University of Catania;

Since 2015: "Counselor" for students of the First Degree in Physics, Department of Physics and Astronomy of the University of Catania;

Since 2016: Staff Member of PHD in Complex Systems for Physical, Socio-Economical and Life Sciences, University of Catania;

Since 2017: Member of the Scientific Program Committee of the annual conference "Summer Solstice Conference on Discrete Models of Complex Systems";

Since 2017: Member of CCS/ITALY, "Italian Regional Chapter on Complex Systems" ;

2017-2018: Partecipation at the research project "Studio di sistemi complessi su reti multilayer con simulazioni ad agenti" supported by Ateneo di Catania;

Since 2018: Member of Scientific Committee for the "Collana di Computational Social Science", Franco Angeli Editore;

Since 2018: Incaricato di ricerca scientifica presso INFN, Sezione di Catania;

Research Interests

Statistical mechanics; dynamics and thermodynamics of systems with long-range interactions; complex systems; phase transitions and critical phenomena; self-organized criticality; glassy systems; chaos and nonlinear dynamics; fractals; turbulence; plasma physics; ether-drift experiments and void structure; emergent gravity; synchronization in many-body systems; complex networks theory applied to physical, biological, social and economic systems; numerical simulations; agents-based simulations.

Bibliometric Indicators

H-Index: 18 (Scopus, July 2018)

Citazioni: 1067 (Scopus, July 2018)

Web Site: <http://www.dfa.unict.it/home/pluchino/>

Referee of many International Journals, among which:

PLOS ONE, Physical Review E, Chaos, International Journal of Modern Physics C, Physica A, Journal of Statistical Physics, Europhysics Letters, Chaos, Entropy, Eur. Phys. Journal B, Journal of Artificial Societies and Social Simulations (JASSS)

Attended Conferences and International Projects

- International Workshop '*Stochastic Systems: from randomness to complexity*' (29-31 July 2002) – Erice (TP), Centro Ettore Majorana - Uditore
- International Workshop '*Energy and information transfer in biological systems*' (18-22 settembre 2002) – S.Tecla Palace Hotel – Acireale (CT) - Uditore
- International Workshop "*Anomalous distributions, non-linear dynamics and non-extensivity*" – (2002) Santa Fe (New Mexico – USA) - Uditore
- Workshop su Biologia e Sistemi complessi – Università di Firenze (2002)
- Convegno internazionale "*Frontier Science 2003 - A non linear world: the real world*" – Università di Pavia (2003) - Presentazione di un poster
- Scuola internazionale E.Fermi "*The physics of Complex Systems: new advances and perspectives*" – (2003) Varenna (Lago di Como) – Presentazione di un poster
- Convegno internazionale "*Next 2003 – News and expectations in thermostatics*" – (2003) Villasimius (Cagliari). Talk presentation
- Conferenza Internazionale "*Trends and perspective in extensive and non-extensive statistical mechanics*" in honour of Constantino Tsallis 60th birthday – Angra dos Reis (Brazil) Talk presentation
- "*International Conference on Complex Systems*" - ICCS 2004 (Boston - USA) - Presentazione di un poster
- International Conference "*Experimental Chaos 2004*" (Firenze, 2004) - Presentazione di un poster
- Invited talk to the International conference "*Complexity and Nonextensivity: New Trends in Statistical Mechanics*" - Yukawa Institute for Theoretical Physics - (14-18 March 2005) Kyoto, Japan
- 3rd NEXT International Conference "*News Expectations and Trends in Statistical Physic*" (13-18 August 2005, Kolimbari - Crete, Greece) - Talk presentation
- *XCI Congresso Nazionale S.I.F.* - Dipartimento di Fisica e Astronomia dell'Università di Catania 26 Settembre - 1 October 2005 – Presentazione di un Poster
- Invited talk to the International symposium in honour of Alberto Robledo "*Nonlinearity, nonequilibrium and complexity: Questions and perspectives in statistical physics*"; Tepoztlan, Mexico – 28/11/05- 02/12/05
- London Mathematical Society, "*Durham Symposium on Dynamical Systems and Statistical Mechanics*"; Durham, UK – 3-7 July 2006 - Talk presentation
- International Conference on "*Ettore Majorana's legacy and the Physics of the XXI century*" to commemorate the centennial of Majorana's birth, Dipartimento di Fisica e Astronomia Università di Catania – 5-6 October 2006

- Invited talk all'International Conference on "*Complexity, Metastability and Nonextensivity - Catania Next07*", satellite conference of StatPhys23, 1-5 July 2007 - Catania, Italy
- International Conference STATPHYS23 on statistical physics, 9-13 July 2007, Genova, Italy Presentazione di un poster
- Invited talk all'International Workshop on "*Ecological Complex Systems: Stochastic Dynamics and Patterns*", 22-26 July 2007, Città del Mare - Terrasini (Palermo), Italy
- WIVACE 2007 - Workshop Italiano di Vita Artificiale e Computazione Evolutiva, 5-7 Settembre 2007, Sampieri (Ragusa), Italy
- The 10th Experimental Chaos Conference - 3-6 June 2008 - Dipartimento di Ingegneria dell'Università di Catania - Presentazione di un poster
- Sigma-Phi 2008 - International Conference on Statistical Physics - 14-18 July 2008 Kolimbari, Creta - Talk presentation
- Invited talk to the International Conference on Nonextensive Statistical Mechanics - NEXT08, 27-31 October 2008, Iguacu, Brazil
- Physcon 2009 - 4th International Scientific Conference on Physics and Control - 1-4 Settembre 2009 - Facoltà di Ingegneria dell'Università di Catania - Talk presentation
- TIC-STH 2009 - IEEE Toronto International Conference - Science and Technology for Humanity - 26-27 Settembre 2009 - Toronto, Canada - Talk presentation
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Complex Systems Series" - Lipari, Italy, 3-10 July 2010
- STATPHYS 24 - International Conference on Statistical Physics - Convention Centre, Cairns, Australia, 19-23 July 2010 - Presentazione di un poster
- Invited talk a Uniwinding Complexity - Statistical Physics Perspectives on Complex Systems and Complex Materials - Port Douglas, Australia - 24-26 July 2010
- Invited talk at Harvard University (Boston) for the "IG NOBEL PRIZE 2010 CEREMONY" - 30 September 2010 <http://www.pluchino.it/ignobel.html>
- Invited talk at M.I.T. (Boston) as IG NOBEL PRIZE 2010 winner - 1 October 2010
- Co-Director of the LIPARI INTERNATIONAL SCHOOL "Complex Systems Series" - Lipari, Italy, 9-16 July 2011
- LIPARI INTERNATIONAL SCHOOL "Computational Social Science: text and decisions" - Lipari, Italy, 17-23 July 2011 - Tutorial presentation on NetLogo environment
- ECCS'11 - European Conference on Complex Systems - Vienna 12-16 Settembre 2011 - Talk presentation
- International collaboration with Prof.Constantino Tsallis for a research project on Non Extensive Statistical Mechanics at CBPF (Centro Brasileiro de Pesquisas Fisicas), Rio de Janeiro from 03/02/2012 to 18/02/2012;
- Invited talk at Max-Planck Insitut fur Polymerforschung - Mainz, Germania - 03 July 2012
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Complex Systems Series" - Lipari, Italy, 14-21 July 2012
- LIPARI INTERNATIONAL SCHOOL "Computational Social Science: text and decisions" - Lipari, Italy, 21-28 July 2012 - Invited Tutorial on the software environment for agent-based simulations NetLogo
- Invited talk at International Symposium on Tsallis Entropy and Its Applications press oil Murray Gell-Mann Institute of Complexity Science - Central China University, Wuhan, China - 16-18 October 2012
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Complex Systems Series" - Lipari, Italy, 6-13 July 2013
- ECCS'13 - European Conference on Complex Systems - Barcellona 16-20 Settembre 2013 - Talk presentation
- Invited talk to the Conference on "Complex System: Foundation and Applications", celebration of 70 years of Prof.C.Tsallis - 28 October - 1 November 2013- CBPF (Centro Brasileiro de Pesquisas Fisicas) - Rio de Janeiro (Brazil)

- 2013-2014 – Staff of the Jean Monnet European Project “New Strategies for Democratic Development and Political Integration in Europe” coordinated by Dipartimento di Giurisprudenza dell’Università di Catania (<http://www.news-eu.org>), with a talk about “Deputati Indipendenti ed Efficienza del Parlamento” – 29/11/2013
- Invited talk at IPSA World Congress 2014, Panel RC06.461: Sortition as a democratic procedure, 19-24 July 2014 - Montreal, Canada
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Complex Systems Series" - Lipari, Italy, 27 July – 2 August 2014
- International collaboration with Prof.Constantino Tsallis for a research project on Non Extensive Statistical Mechanics at CBPF (Centro Brasileiro de Pesquisas Fisicas), Rio de Janeiro from 22/11/2014 to 29/11/2014
- IC2S2 2015 – International Conference on Computational Social Systems – 08-11 June 2015 Helsinki, Finlandia - Talk presentation
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Complex Systems Series" - Lipari, Italy, 12-18 July 2015
- Invited talk to the International School of Complexity “New trends in statistical mechanical foundation of complexity: applications in high energy and plasma physics, long-range interactions, edge of chaos and elsewhere”, 27 July – 03 August 2015 – Erice, Italy
- Invited talk to the Conference “Biophys ‘15 – From physics to biology and beyond”, 9-11 Settembre 2015 – Florence, Italy
- Invited talk at the International Workshop on “Foundations of complexity: Nonadditive entropies and Nonextensive statistical mechanics”, 04-30 October 2015 - Rio de Janeiro (Brazil)
- Invited talk at the XVI International "Disordered Systems: Theory and its Applications" Symposium, 25-27 May 2016, Istanbul, Turkey
- IC2S2 2016 – International Conference on Computational Social Science – 24-26 June 2016 Chicago, USA - Talk presentation
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Computational Complex and Social Sciences" - Lipari, Italy, 10-17 July 2016
- Invited talk to the Conference “Biophys & Pieces ‘16”, 26-28 Settembre 2016 – Bari, Italy
- Invited talk at “IgNobel Spring Tour Show 2017”, March 21, 2017 - EPFL Forum Rolex, Lausanne (Switzerland)
- Member of Organizing Committee of “IgNobel Spring Tour Show 2017”, April 6, 2017 - Department of Physics, Catania (Italy)
- Member of Organizing Committee of “Summer Solstice 2017 – 9th International Conference on Discrete Models of Complex Systems”, June 21-23 2017, Catania (Italy)
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Computational Complex and Social Sciences" - Lipari, Italy, 16-22 July 2017
- Invited talk at “IgNobel Spring Tour Show 2017”, EPFL Forum Rolex, Lausanne (Switzerland) March 21, 2017
- CCS 2017 – International Conference on Complex Systems – September 17-22 2017, Cancun (Mexico) - Talk presentation
- AUTOMATA 2018 – The 24th Annual International Workshop on Cellular Automata and Discrete Complex Systems – June 20-22 2018 - Ghent University (Belgium) - Talk Presentation
- Invited talk at “Festival della Complessità 2018” – June 30 2018 – Ragusa Ibla (Italy)
- Co-Direction of the LIPARI INTERNATIONAL SCHOOL "Computational Complex and Social Sciences" - Lipari, Italy, 19-25 July 2018
- CCS 2018 – International Conference on Complex Systems – September 23-28 2018, Thessaloniki (Grece) - Talk presentation

- Invited talk at CCS 2018 Satellite meeting on "Questions and perspectives in understanding complexity via nonlinearity and information theory" - September 26 2018, Thessaloniki (Grece)

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Scientific Papers and Books

UNDER REVIEW 2018

M.LE PIRA, N.GIUFRIDA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO, A.RAPISARDA. Exploring demand responsive shared transport services under different vehicle dispatching rules via agent-based simulations.

A.GRECO, A.PLUCHINO, L. BARBAROSSA, I.CALIO', F.MARTINICO, A.RAPISARDA. A simplified model based on self-organized criticality framework for the seismic assessment of urban areas.

A.GRECO, F.CANNIZZARO, A.PLUCHINO. Limit analysis of planar frame structure under seismic load through immune algorithms.

A.GRECO, A.PLUCHINO, F.CANNIZZARO. An improved Ant Colony Optimization algorithm for limit analysis of frame structures.

A.GRECO, A.PLUCHINO, S.CADDEMI, I.CALIO', F.CANNIZZARO. On profile reconstruction of Eulero-Bernoulli beams by means of energy based genetic algorithms.

CASERTA M., PLUCHINO A., RAPISARDA A., SPAGANO S.. The fallacy of representative democracy and the random selection of legislators. arXiv:1712.04194 [physics.soc-ph]

IN PRESS 2018

A.PLUCHINO, A.E.BIONDO, A.RAPISARDA. Talent vs Luck: the role of randomness in success and failure. Advances in Complex Systems. arXiv:1802.07068 [physics.soc-ph]

Supplementary Material: <http://www.pluchino.it/talent-vs-luck-ita.html>

Altmetric Score: <https://www.altmetric.com/details/33451664>

M.CONSOLI, A.PLUCHINO. Cosmic Microwave Background and the issue of a fundamental preferred frame. European Physical Journal Plus. arXiv:1801.03775 [physics.gen-ph]

M.CONSOLI, A.PLUCHINO. Michelson-Morley experiments: an enigma for physics and history of science. World Scientific

PUBLISHED

A.FICHERA, A.PLUCHINO, R.VOLPE (2018). A multi-layer agent-based model for the analysis of ebergy distribution networks in urban areas. Physica A 508, 710-725. arXiv:1705.09803 [physics.soc-ph]

A.E.BIONDO, A.PLUCHINO, A.RAPISARDA (2018). Modelling surveys effects in political competitions. Physica A 503, 714-726. arXiv:1711.02765 [physics.soc-ph]

A.GRECO, F.CANNIZZARO, A.PLUCHINO (2018). Automatic evaluation of plastic collapse conditions for planar frames with vertical irregularities. Engineering with Computers, <https://doi.org/10.1007/s00366-018-0583-9>

A.GRECO, D.D'URSO, F.CANNIZZARO, A.PLUCHINO (2018). Damage identification on spatial Timoshenko arches by means of genetic algorithms. Mechanical Systems and Signal Processing, Vol. 105 p. 51-67

A.GRECO, A.PLUCHINO, F.CANNIZZARO, S.CADDEMI, I.CALIO' (2018). Closed-form solution based Genetic Algorithm Software: Application to multiple cracks detection on beam structures by static tests. Applied Soft Computing 64, pp. 35-48. arXiv:1701.06432.

M.LE PIRA, E.MARCUCCI, V.GATTA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO (2017). Integrating discrete choice models and agent-based models for ex-ante evaluation of stakeholder policy acceptability in urban freight transport. Research in Transportation Economics 64, 13-25.

A.GRECO, F.CANNIZZARO, A.PLUCHINO (2017). Seismic collapse prediction of frame structures by means of genetic algorithms Engineering Structures 143, pp. 152-168. arXiv:1609.09411 [physics.soc-ph]

- M.LE PIRA, E.MARCUCCI, V.GATTA, M.IGNACCOLO, G.INTURRI, A.PLUCHINO (2017). Towards a decision-support procedure to foster stakeholder involvement and acceptability of urban freight transport policies. *Eur. Transp. Res. Rev.* 9:54, DOI 10.1007/s12544-017-0268-2
- A.PLUCHINO (2017). Disuguaglianze e crescita economica: pensiero globale e responsabilità individuale. In "Economia ed Etica: il dialogo necessario per il bene della Casa Comune" a cura di Francesco Brancato, Quaderni di Synaxis n.7 - Studio Teologico S.Paolo Catania
- E.MARCUCCI, M.LE PIRA, V.GATTA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO (2017). Simulating participatory urban freight transport policy-making: accounting for heterogeneous stakeholders' preferences and interaction effects. *Transportation Research Part E-Logistics and Transportation Review*. Vol.103, Pages 69-86 doi.org/10.1016/j.tre.2017.04.006
- A.PLUCHINO, A.RAPISARDA, C.GAROFALO (2017). Abbiamo vinto l'IG Nobel, con il principio di Peter. *Scienza, Caso e Humor. MALCOR'D Edizione* - ISBN 9788897909323
- M.LE PIRA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO (2017). Modelling consensus building in Delphi practices for participated transport planning. *Transportation Research Procedia*, Vol. 25, 3729-3739. <https://doi.org/10.1016/j.trpro.2017.05.226>. arXiv:1511.06127 [physics.soc-ph]
- M.LE PIRA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO (2017). Dealing with the complexity of stakeholder interaction in participatory transport planning. in "Advanced Concepts, Methodologies and Technologies for Transportation And Logistics", Springer-Verlag Berlin Heidelberg. DOI 10.1007/978-3-319-57105-8
- A.E.BIONDO, A.PLUCHINO, A.RAPISARDA (2017). A multilayer approach for price dynamics in financial markets. *Eur. Phys. J. Special Topics* 226, 477-488
- A.E.BIONDO, A.PLUCHINO, A.RAPISARDA (2017). Informative Contagion Dynamics in a Multilayer Network Model of Financial Markets. *Italian Economic Journal*, Springer. DOI 10.1007/s40797-017-0052-4
- M.LE PIRA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO, A.RAPISARDA (2017). Finding shared decisions in stakeholder networks: an agent-based approach. *Physica A* 466, 277-287
- A.E.BIONDO, A.PLUCHINO, A.RAPISARDA (2016). A multilayer model of order book dynamics. *Journal of Network Theory in Finance* 2(3), 1-16 DOI: 10.21314/JNTF.2016.021
- A.PLUCHINO (2016). 10 Pillole di Complessità: una guida per capire la rivoluzione scientifica in corso. MALCOR'D Edizione - ISBN 978-88-979-0926-2
- M.LE PIRA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO, A.RAPISARDA (2016). Modelling stakeholder participation in transport planning. *Case Studies on Transport Policy*, Volume 4, Issue 3, Pages 230-238
- M.CONSOLO, A.PLUCHINO (2016). The Idea of a Stochastic Space-Time: Theory and Experiments. In "Beyond Peaceful Coexistence: the Emergence of Space, Time and Quantum" World Scientific ISBN: 978-1-78326-831-3
- A.E.BIONDO, A.PLUCHINO, A.RAPISARDA (2016). Order Book, Financial Markets and Self-Organized Criticality. *CHAOS, SOLITONS AND FRACTALS*, Chaos, Solitons and Fractals 88, 196-208, doi:10.1016/j.chaos.2016.03.001
- M.CONSOLO, A.PLUCHINO, A.RAPISARDA (2016). Cosmic Background Radiation and "ether-drift" experiments. *EUROPHYSICS LETTERS*, 113 19001
Supplementary Material: <https://phys.org/news/2016-02-year-old-ether-cosmological-temperature-gradient.html>
- A.E.BIONDO, A.GIARLOTTA, A.PLUCHINO, A.RAPISARDA (2016). Perfect Information vs Random Investigation: Safety Guidelines for a Consumer in the Jungle of Product Differentiation. *PLoS ONE* 11(1): e0146389 doi:10.1371/journal.pone.0146389
- M.CONSOLO, A.PLUCHINO (2015). Il Vuoto: un enigma tra fisica e metafisica. ARACNE Editrice - ISBN 978-88-548-8787-9
- M.LE PIRA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO (2015). Analysis of AHP Methods and the Pairwise Majority Rule (PMR) for Collective Preference Rankings of Sustainable Mobility Solutions. *TRANSPORTATION RESEARCH PROCEDIA*, Volume 10c, Pages 852-862
- A.PLUCHINO (2015). La Firma della Complessità: una passeggiata al margine del caos. MALCOR'D Edizione - ISBN 978-88-979-0917-0
Supplementary Material: <http://www.pluchino.it/firma-della-complessita.html>

- A.E.BIONDO, A.PLUCHINO, A.RAPISARDA (2015). Modelling Financial Markets by Self-Organized Criticality. PHYSICAL REVIEW E 92, 042814
- M.LE PIRA, G.INTURRI, M.IGNACCOLO, A.PLUCHINO, A.RAPISARDA (2015). Simulating opinion dynamics on Stakeholders' networks through agent-based modelling for collective transport decisions. PROCEDIA COMPUTER SCIENCE, Volume 52, Pages 884-889
- CONSOLI M., PLUCHINO A., RAPISARDA A., TUDISCO S. (2014). The vacuum as a form of turbulent fluid: motivations, experiments, implications. PHYSICA. A, vol. 394, p. 61-73, ISSN: 0378-4371, doi: 10.1016/j.physa.2013.09.070 2.
- BIONDO A. E., PLUCHINO A., RAPISARDA A. (2014). Micro and macro benefits of random investments in financial markets. CONTEMPORARY PHYSICS, Vol.55 Issue 4 DOI: 10.1080/00107514.2014.929308
- D.A.ZAPPALA', A.PLUCHINO, A.RAPISARDA (2014). Selective altruism in collective games. PHYSICA A 410, 496-512
- M.CONSOLI M. AND A.PLUCHINO (2014). Gravity as an emergent phenomenon: experimental signatures. arXiv: 1311.4301 [gr-qc]
- PLUCHINO A., GAROFALO C., INTURRI G., RAPISARDA A., IGNACCOLO M. (2014). Agent-based simulation of pedestrian behaviour in closed spaces: a museum case study. JASSS, vol. 1, 17, ISSN: 1460-7425 3.
- PLUCHINO A., RAPISARDA A., TSALLIS C. (2013). Noise, synchrony, and correlations at the edge of chaos. PHYSICAL REVIEW E, STATISTICAL, NONLINEAR, AND SOFT MATTER PHYSICS, vol. 87, p. 022910-1-022910-5, ISSN: 1539-3755, doi: 10.1103/PhysRevE.87.022910
- BIONDO A. E., PLUCHINO A., RAPISARDA A., HELBING D. (2013). Are random trading strategies more successful than technical ones?. PLOS ONE, vol. 8, ISSN: 1932-6203, doi: 10.1371/journal.pone.0068344 4.
- CONSOLI M., MATHESON C., PLUCHINO A. (2013). The classical ether-drift experiments: a modern re-interpretation, EUR. PHYS. J. PLUS (2013) 128: 71 - DOI 10.1140/epjp/i2013-13071-7
- BIONDO A. E., PLUCHINO A., RAPISARDA A., HELBING D. (2013). Reducing financial avalanches by random investments. PHYSICAL REVIEW E, STATISTICAL, NONLINEAR, AND SOFT MATTER PHYSICS, vol. 88, ISSN: 1539-3755, doi: <http://dx.doi.org/10.1103/PhysRevE.88.062814>
Supplementary Material: http://www.pluchino.it/financial-markets_ita.html
- PLUCHINO A., RAPISARDA A., GAROFALO C., SPAGANO S., CASERTA M. (2013). L'efficienza del caso. LE SCIENZE, vol. 533, ISSN: 0036-8083
- BIONDO A.E., PLUCHINO A., RAPISARDA A. (2013). Return Migration After Brain Drain: An Agent Based Simulation Approach. JASSS, vol. 16, ISSN: 1460-7425
- BIONDO A. E., PLUCHINO A., RAPISARDA A. (2013). The beneficial role of random strategies in social and financial systems. JOURNAL OF STATISTICAL PHYSICS, vol. 151, p. 607-622, ISSN: 0022-4715, doi: 10.1007/s10955-013-0691-2
- CASERTA M., GAROFALO C., PLUCHINO A., RAPISARDA A., SPAGANO S. (2012). Democrazia a sorte. Ovvero la sorte della democrazia. MALCOR D' EDIZIONE - ISBN: 9788897909019
- A.PLUCHINO, A.RAPISARDA, C.GAROFALO (2012). Reti e Gerarchie: meritocrazia ed efficienza. In "Sistemi, Modelli, Organizzazioni. Management e Complessità" (a cura di Ignazio Licata) ED. CORISCO- ISBN 978-88-98138-02-9
- D.MASCALI, S.TUDISCO, N.GAMBINO, A.PLUCHINO, A.ANZALONE, F.MUSUMECI, A.RAPISARDA, A.SPITALERI (2012) Prompt electrons driving ion acceleration and formation of a two temperatures plasma in nanosecond laser-ablation domain. EUROPHYSICS LETTERS, 100 45003
- A.PLUCHINO, C.GAROFALO, A.RAPISARDA, S.SPAGANO, M.CASERTA (2011). Accidental Politicians: How Randomly Selected Legislators Can Improve Parliament Efficiency. PHYSICA A 390, 3944-3954
Supplementary Material: <http://www.pluchino.it/parliament-ita.html>
- A.PLUCHINO, A.RAPISARDA, C.GAROFALO (2011). Efficient Promotion Strategies in Hierarchical Organization. PHYSICA A 390, 3496-3511
- R.LE MOLI, A.PLUCHINO, V.MUSCIA, C.REGALBUTO, B.LUCIANI, S.SQUATRITO, R.VIGNERI (2011). Graves' orbitopathy: extraocular muscle/fat ratio in the orbit is positively related to the Clinical Activity Score (CAS). EUROPEAN JOURNAL OF OPHTHALMOLOGY
pii: 09D05CE9-5CD5-4465-AA46-5791177510F5. doi: 10.5301/ejo.5000018

- M.CONSOLO, A.PLUCHINO, A.RAPISARDA (2011). Basic Randomness of Nature and Ether-drift Experiments. *CHAOS, SOLITONS & FRACTALS* 44 (2011) 1089–1099
- A.PLUCHINO, A.RAPISARDA, C.GAROFALO (2010). The Peter Principle Revisited: A Computational Study. *PHYSICA A* 389, 467-472. Rewarded with the "Ig-Nobel Prize 2010 for Management" at Harvard University, Boston (USA) il 30/09/2010
Supplementary Material:<http://www.pluchino.it/peter-links.html>
Best Altmetric Score for Physica A: <https://www.altmetric.com/details/1043053?src=bookmarklet>
- A.PLUCHINO, A.RAPISARDA, C.GAROFALO (2010). Le Insidie del Principio di Peter - Strategie per evitare i rischi di una meritocrazia ingenua. *PSICOLOGIA CONTEMPORANEA*, May-June 2010
- A.PLUCHINO, A.RAPISARDA, C.TSALLIS (2009). On "Ergodicity and Central Limit Theorem in Systems with Long-Range Interactions". *EUROPHYSICS LETTERS*. vol. 85, pp. 60006.
- G.MIRITELLO, A.PLUCHINO, A.RAPISARDA (2009). Central Limit Behavior in the Kuramoto model at the "Edge of Chaos". *PHYSICA A* 388, 4818-4826.
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