VALERIO DOSE - CURRICULUM VITAE (Aug-2024) ai fini della pubblicazione

Valerio Dose

Current Position

Assistant Professor (RTDA) - "Sapienza" Universty of Rome - Department of Computer, Control and Management Engineering

Education

Ph. D. in Mathematics - University of Rome "Tor Vergata" - February 2015 Master of Mathematics - University of Rome "Tor Vergata" - July 2010 - score: 110/110 e lode Bachelor of Mathematics - University of Rome "Tor Vergata" - July 2008 - score: 110/110 e lode

Qualifications

France: Qualification - Maître de conférences - Section 25 (Mathématiques) - N. 20225346012 - 21/01/2020

Research Activity

- 01/07/2021-: Assistant Professor (RTDA) "Sapienza" University of Rome Department of Computer, Control and Management Engineering
- 15/02/2018-14/02/2021: Postdoctoral Researcher LUISS "Guido Carli" Department of Economics and Finance.
- 01/10/2016-30/09/2017: Postdoctoral Researcher "Ing. Giorgio Schirillo" INdAM Istituto Nazionale di Alta Matematica.
- 01/09/2015-31/08/2016: Postdoctoral Researcher "Ing. Giorgio Schirillo" INdAM Istituto Nazionale di Alta Matematica.
- 10/2013-12/2013: Visiting at Mathematisch Instituut of Universiteit Leiden, The Netherlands.
- 03/2012-05/2012: Visiting at Universitat Politècnica de Catalunya (UPC), Barcelona, Spain.
- 11/2010-02/2015: Ph. D. student Department of Mathematics, University of Rome "Tor Vergata".

Teaching Activity

- 05/2024-: Professor (Nonatomic Congestion Games) "Sapienza" University of Rome Department of Computer, Control and Management Engineering (PhD program in Automatic Control, Bioengineering and Operations Research (ABRO))
- 09/2021-: Professor (Analisi Matematica, Geometria) "Sapienza" University of Rome Department of Computer, Control and Management Engineering (bachelor's degree in Management Engineering, bachelor's degree in Computer and Control Engineering).
- 02/2021-06/2021: Adjunct Professor (Games and Strategies) LUISS "Guido Carli" Department of Economics and Finance (bachelor's degree in Economics and Business).
- 09/2018-06/2021: Adjunct Professor (Mathematics 1) LUISS "Guido Carli" Department of Economics and Finance.
- 10/2017-09/2018: Adjunct Professor (Fondamenti di Matematica e Statistica) "Sapienza" University of Rome - Department of Chemistry and Pharmaceutical Technologies.
- 10/2017-09/2018: Teaching Assistant (Geometria) University of Rome "Tor Vergata" Faculty of Engineering.
- 10/2017-09/2018: Teaching Assistant (Matematica) LUISS "Guido Carli"- Department of Business and Management.
- 10/2014-01/2015: Teaching Assistant (Geometria) University of Rome "Tor Vergata" Faculty of Engineering.
- 10/2014-01/2015: Teaching Assistant (Geometria) "Sapienza" University of Rome Faculty of Engineering.

Publications and Preprints

- R. Cominetti, V. Dose, M. Scarsini. The Price of Anarchy in Routing Games as a Function of the Demand. Math. Program. 203 (2024). 531-558. https://doi.org/10.1007/s10107-021-01701-7
- R. Cominetti, V. Dose, M. Scarsini. Monotonicity of Equilibria in Nonatomic Congestion Games. Eur. J. Oper. Res. 316 (2024), No. 2. 754-766. https://doi.org/10.1016/j.ejor.2024.01.050
- R. Cominetti, V. Dose, M. Scarsini. Phase Transitions of the Price-of-Anarchy Function in Multi-Commodity Routing Games. Transp. Res. Part B. 182 (2024). https://doi.org/10.1016/j.trb.2024.102922
- V. Dose, G. Lido, P. Mercuri. Automorphisms of Cartan modular curves of prime and composite level. *Algebra Number Theory.* **16** (2022), No. 6, 1423-1461.
- V. Dose, G. Lido, P. Mercuri, C. Stirpe. Modular Curves with many points over finite fields. J. of Algebra. 635 (2023), 790-821.
- V. Dose, P. Mercuri, A. Pal, C. Stirpe. High order elements in Finite Fields arising from Recursive Towers. Design Codes and Cryptography. 90 (2022), 1347-1368.
- V. Dose, P. Mercuri, C. Stirpe. Double Covers of Cartan Modular Curves. J. Number Theory. 195 (2019), 96-114.
- V. Dose. On the automorphisms of the nonsplit Cartan modular curves of prime level. Nagoya Math. J.. 224 (2016), no. 1, 74-92.
- V. Dose, J. Fernández, J. González, R. Schoof. The automorphism group of the non-split Cartan modular curve of level 11. J. of Algebra. 417 (2014), 95-102.
- V. Dose, N. Green, M. Griffin, T. Mao, L. Rolen, J. Willis. Singular moduli for a distinguished nonholomorphic modular function. Proc. Amer. Math. Soc.. 143 (2015), no.3, 965-972.
- R. Cominetti, V. Dose, M. Scarsini. The Price of Anarchy in Routing Games as a Function of the Demand. Accepted in WINE 2019, Abstract published in LNCS 11920. Springer.
- V. Dose. Optimal Traffic Conditions in Two-Link Parallel Networks with Polynomial Costs. *preprint*. (2023)
- V. Dose (written by M. Anwar). Automorphisms of non-split Cartan modular curves. Proceedings of the Roman Number Theory Association. 1 (2016), no. 1, 17-21. IF PRESS. ISBN: 978-88-6788-077-5
- C. Mauduit (written by V. Dose). Automata and Number Theory. Proceedings of the Roman Number Theory Association. 1 (2016), no. 1, 17-21. IF PRESS. ISBN: 978-88-6788-077-5

Scopus - 10 papers, 37 citations, h-index 4

Google Scholar - 11 papers, 70 citations, h-index 5

Average Impact factor	1.616 (Scopus FWCI) – 2.0288 (Clarivate JIF)
Total Citations	37 (Scopus)
Average Citations per Product	3.7 (Scopus)
Hirsch (H) index	4 (Scopus)
Normalized H index*	0.4 (Scopus calcolato da dottorato 2015)

*H index divided by the academic seniority.

Editorial Activity

Reviewer for: Mathematical Programming, OMEGA, EJOR - European Journal of Operations Research, WINE 2020 - the 16th Conference on Web and Internet Economics, ESA 2022 - The European Symposium on Algorithms, ODS 2024 - Optimization and Decision Sciences - AIRO Springer Series.

Participation in Funded Research Projects

- 03/2024-03/2027: Principal Investigator "Game Theoretic models and Optimization methods for Socially Responsible resource management" - "Sapienza" University of Rome.
- 05/2023-04/2024: Participant "Limiting Behavior of Stochastic Dynamics in the Schelling Segregation Model" - GNAMPA-INdAM.
- 09/2020-12/2021: Participant "Random walks on random games" GNAMPA-INdAM.
- 08/2019-02/2021: Participant "Algorithms, Games, and Digital Markets (ALGADIMAR)" PRIN 2017 MIUR.
- 02/2013-02/2015: Participant "Geometria delle Varietà Algebriche" PRIN 2010-2011 MIUR.

Participations in Congresses and Presentations

- 07/2024: EURO 2024: 33rd European Conference on Operational Research DTU, Copenhagen, Denmark talk
- 01/2024: 26th Combinatorial Optimization Workshop CNRS, Aussois, France
- 01/2023: Workshop on Optimization, Learning and Games Universidad Adolfo Ibañez, Viña del Mar, Chile
- 09/2022: International Conference on Optimization and Decision Science (ODS2022) Firenze, Italy talk
- 07/2022: 19th Workshop on Advances in Continuous Optimization (EUROPT2022) Nova SST, Portugal talk
- 05/2022: 7th Workshop on Stochastic Methods in Game Theory Centro Ettore Majorana, Erice, Italy talk
- 12/2020: Annual Meeting PRIN "Algadimar" online talk
- 02/2020: 4th AIROYoung Workshop Free University of Bolzano, Italy talk
- 12/2019: WINE 2019: The 15th Conference on Web and Internet Economics Columbia University, New York, USA talk
- 11/2019: GAMENET Conference 2019, Institute of Information Theory and Automation, Prague, Czech Republic
- 09/2019: MAPLE2019 Markets, Algorithms, Prediction, and Learning Politecnico di Milano, Italy talk
- 07/2019: Twenty Years of the Price of Anarchy TUC, Chania, Crete, Greece poster
- 05/2019: The 1st EUROYoung Workshop IMUS, Sevilla, Spain talk
- 12/2018: WINE 2018: The 14th Conference on Web and Internet Economics University of Oxford, UK poster
- 06/2017: Thematic Program in Kähler Geometry University of Notre Dame, Indiana, USA
- 02/2017: MAGIC Seminar. Imperial College, London, UK talk
- 05/2016: Giornate di Geometria Algebrica ed Argomenti Correlati XIII Università di Catania, Italy talk
- 09-10/2015: Modular Forms and Curves of Low Genus: Computational Aspects ICERM, Brown University, RI, USA
- 09/2015: Third Italian Number Theory Meeting Centro di Ricerca Matematica "Ennio de Giorgi", Scuola Normale Superiore, Pisa, Italy - talk
- 05/2015: The first mini-symposium of the Roman Number Theory Association. Università Europea di Roma, Italy - talk
- 03/2015: Arizona Winter School 2015: Arithmetic and Higher-dimensional Varieties University of Arizona, Tucson, USA
- 03/2013: Arizona Winter School 2013: Modular forms and modular curves University of Arizona, Tucson, USA
- 06/2012: Contemporary methods for solving Diophantine equations Banff International Research Station, Banff, Canada
- 07/2011: ACAGM Summer School Katholieke Universiteit, Leuven, Belgium
- 06-07/2011: "Birch and Swinnerton-Dyer conjecture" summer school Porto Conte Ricerche, Alghero, Italy