

Curriculum Vitae of Giacomo Como, February 14, 2021

Personal Data

Name: Giacomo Como Date of birth: February 1st, 1981 Nationality: Italian

Contact details:

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Research fields

Control and information systems; network science and engineering; applied mathematics.

Keywords: network dynamics; nonlinear, optimal, and robust control; game theory; systemic risk and resilience; cyber-physical systems; intelligent transportation systems; smart mobility; social and economic networks; financial networks.

Current positions

Full Professor Politecnico di Torino, since July 2021.

Visiting Professor Lund University, since September 2018.

Research Associate CNR-IEIIT, Torino, Italy, since April 2017.

Previous positions

September 2016 – July 2021 Associate Professor with tenure, Politecnico di Torino.

October 2013 – August 2018 Associate Professor with tenure, Lund University.

August 2011 – September 2013 Assistant Professor Lund University.

May 2008 – July 2011 Post-Doctoral Associate, Massachusetts Institute of Technology.

March 2008 – May 2008 Adjunct Professor, Politecnico di Torino.

September 2006 – May 2007 Visiting Assistant in Research, Yale University.

Education and titles

2018– Italian National Academic Qualification as Full Professor of Automatic Control.

2013– Italian National Academic Qualification as Associate Professor, Automatic Control.

2012– Docent (Swedish academic title) in Automatic Control.

January 2005 – March 2008 Ph.D. in Applied Mathematics at Politecnico di Torino.

September 2002 – December 2004 M.Sc., Politecnico di Torino, summa cum laude.

September 1999 – September 2002 B.Sc., Politecnico di Torino, summa cum laude.

Languages

Italian native; **English** fluent; **French** basic (DELF: A1,A2); **Swedish** basic.

Awards and Individual Grants

2015 George S. Axelby Outstanding Paper Award from the IEEE-CS Society.

Oct. 2017-Sept. 2021 Joint Research Project from Compagnia di San Paolo.

Sep. 2016-Aug. 2018 Starting Grant from Compagnia di San Paolo.

Jan.2016-Dec.2019 Project Research Grant from the Swedish Research Council.

Jan.2012-Dec.2015 Junior Research Grant from the Swedish Research Council.

Further professional and scientific activities

Guest Editor-in-Chief of Special Issue “Dynamics and Behaviors in Social Networks” in the IEEE Transactions on Control of Network Systems, 2020-2021.

Associate Editor of IEEE Transactions on Control of Network Systems, since 2016.

Associate Editor of IEEE Transactions on Network Science and Engineering, 2016–2021.

Guest Associate Editor of Special Section on “Mathematical Modeling, Analysis, and Control of Epidemics” in the SIAM Journal on Control and Optimization, 2020-21.

Chair IEEE–CSS Technical Committee on Networks and Communications, since 2019.

Chair of the International Program Committee 5th IFAC workshop on Distributed Estimation and Control in Networked Systems (NecSys 2015).

Board Member Dept. of Mathematical Sciences Excellence Project, PoliTo, since 2018.

Board Member Lund Center for Control of Complex Engineering Systems, 2013–2018.

Departmental Delegate for Teaching Quality Assurance PoliTo, 2019–.

Principal Investigator of the project “SMaILE – Simple Methods for Artificial Intelligence Learning and Education,” funded by Compagnia di San Paolo, 2021-2023.

Principal Investigator of the Politecnico di Torino Unit in MIUR-funded PRIN project “Advanced Network Control of Future Smart Power Grids”, 2019–2022.

Organizer and Scientific Committee member

Workshop “Dynamics in Social and Economic Networks,” 59th IEEE Control Decision Conference, December 12-13, 2020.

Thematic Semester on “Network Dynamics and Resilience,” Politecnico di Torino, Fall 2019.

Workshop “Network Dynamics in the Social, Economic, and Financial Sciences,” Politecnico di Torino, November 2019.

Workshop “Resilient Control of Infrastructure Networks,” Politecnico di Torino, Sept. 2019.

Workshop “Paths in Mathematical Control Theory,” Politecnico di Torino, February 2018.

LCCC Focus Period “Dynamics and control in networks,” Lund, Sweden, October 2014.

Mini-course “Harmonic influence in large-scale networks,” at MTNS’14, Groningen, 2014.

LCCC Focus Period “Information and control in networks,” Lund, Sweden, October 2012.

External Expert for Faculty Promotion Luleå University of Technology, Sweden, 2017.

Ph.D. Faculty Opponent

Hakan Terelius, School of Electrical Engineering, KTH, Sweden, November 11, 2016.

Sheng Huang, School of Electrical Engineering, KTH, Sweden, March 20, 2015.

Ph.D. Committee member

Erik Steinmetz, Chalmers University, Sweden, May 28, 2019.
Emma Tegling, School of Electrical Engineering, KTH, Sweden, January 18, 2019.
Stephane Durand, Université de Grenoble, France, December 11, 2018.
Marius Schmitt, ETH Zürich, Switzerland, June 22, 2018.
Tjardo Scholten, University of Groningen, Netherlands, October 6, 2017.
Dominik Pisarski, Université de Grenoble, France, September 16, 2014.
Kittipong Kittichokechai, School of Electrical Engineering, KTH, Sweden, June 3, 2014.
Florian Hug, Electrical and Information Technology Dept., Lund University, May 16, 2012.

Licentiate Examiner

Carolina Lidstrom (16-6-2016), Bjorn Olofsson (12-4-2013), Automatic Control, Lund Univ.

Member of SIAM, IEEE, the Game Theory Society, and the ECMI.

Technical Program Committee member

International Conference on Autonomous Agents and Multi-Agent Systems, (AAMAS 2022).
16th IFAC Symposium on Control in Transportation Systems (CTS 2021).
8th Conference on Complex Networks and their Applications, 2019.
8th IFAC workshop on Distributed Estimation and Control in Networked Systems, 2019.
2019 IEEE Information Theory Workshop (ITW), 2019.
27th Mediterranean Conference on Control and Applications, 2019.
7th Conference on Complex Networks and their Applications, 2018.
7th IFAC workshop on Distributed Estimation and Control in Networked Systems, 2018.
22nd International Conference on System Theory, Control and Computing, 2018.
2nd Symposium on Management of Future motorway and urban Traffic Systems, 2018.
15th IFAC Symposium on Control in Transportation Systems (CTS 2018).
6th Conference on Complex Networks and their Applications, 2017.
6th IFAC workshop on Distributed Estimation and Control in Networked Systems, 2016.
1st Symposium on Management of Future motorway and urban Traffic Systems, 2016.
GLOBECOM Social Networks, 2015.
IEEE International Symposium on Information Theory, 2013, 2014.
IEEE International Conference on Distributed Computing in Sensor Networks, 2012.

Pedagogic training

Teaching and learning in higher education (Fall 2011); PhD student supervision (Spring 2012); Digital resources in teaching (Fall 2012); Communicating Science (Spring 2013).

Teaching Experience

Fall 2021–Spring 2022 Lecturer, Nonlinear Network Systems, PhD, PoliTo.
Summer 2021 Lecturer, Game Theory and Network Systems, SIDRA Summer School.
Fall 2020–2021 Lecturer, Optimal Control and Game Theory, master, PoliTo.
Spring 2020–2022 Lecturer, Mathematical Models, undergrad, PoliTo.
Spring 2019–2022 Lecturer, Nonlinear Systems for Engineering, master, PoliTo.
Fall 2018 Lecturer, Mathematical Control Theory, master, PoliTo.
Fall 2020–2021 Lecturer, Network Dynamics and Learning, master, PoliTo.
Fall 2017–2021 Lecturer, Network Dynamics, master, PoliTo.

Fall 2016–2018 Lecturer, Mathematical Analysis II, undergrad, PoliTo.
Spring 2015–2021 Lecturer and Course Developer, Network Dynamics, master, Lund.
Spring 2016 Lecturer, Network Dynamics, PhD, Gran Sasso Science Inst., Uppsala Univ.
Fall 2014 Lecturer, Network Dynamics, PhD, Dutch Institute of Systems and Control.
Fall 2011,2013 Lecturer, Network Dynamics, PhD, Lund.
Spring 2013 Lecturer, Mathematical Models, undergrad, Lund.
Spring 2012–2014, Fall 2014–2015 Lecturer, Nonlinear Control, undergrad, Lund.
Fall 2012 Lecturer, Information Theory, PhD, Lund.
Spring 2008 Lecturer, Probabilistic Methods in Information Theory, PhD, PoliTo.

Post-Doctoral Researchers advised

Present

Mark Jeeninga since July 2021, PhD from University of Groningen, The Netherlands.

Stephane Durand since May 2019, PhD from Université de Grenoble, France.

Past

Costanza Catalano since July 2019 – June 2020. Now at the Banca d'Italia, Italy.

Lorenzo Zino June 2018 – May 2019. Now at University of Groningen, The Netherlands.

Rosario Maggistro February 2017–July 2018. Now at Università di Trieste, Italy.

Enrico Lovisari September 2012 – August 2014. Now at Volvo Cars, Sweden.

Ph.D. Students advised

Present

Roberta Raineri (co-advised with Fabio Fagnani) Ph.D. student, since October 2021.

Martina Alutto (co-advised with Prof. Fabio Fagnani) Ph.D. student, since October 2021.

Laura Arditti Ph.D. student, since October 2018. Planned defence date: 2022.

Luca Damonte (co-advised with Prof. Fabio Fagnani) Ph.D. student, since Oct. 2018.

Martina Vanelli Ph.D. student, since November 2019. Planned defence date: 2023.

Past

Leonardo Cianfanelli graduated on 11/1/2022.

Leonardo Massai (co-advised with Prof. Fabio Fagnani) graduated on 11/1/2022.

Gustav Nilsson graduated on 15/2/2019. Now Scientist at EPFL, Switzerland.

Wilbert Samuel Rossi (co-advised with F. Fagnani), graduated on 20/3/2015. Now Assistant Professor at the University of Groningen, the Netherlands.

Master students advised

Samuel Selleck defended on 27/2022.
Johan Hellmark defended on 21/12/2021.
Tommaso Toso defended on 4/10/2021.
Francesco Zappia defended on 22/7/2021.
Riccardo Civello (co-advised with Fabio Fagnani) defended on 13/7/2021.
Elsa Wallgren defended on 2/6/2021.
Jacob Landelius defended on 2/6/2021.
Martina Alutto (co-advised with Fabio Fagnani) defended on 19/3/2021.
Raffaele Damiano defended on 30/11/2020.
Roberta Raineri defended on 30/11/2020.
Silvia Canavesio defended on 30/11/2020.
Anton Arbman Hansing defended on 1/6/2020.
Lucrezia Carboni defended on 6/10/2020.
Amani Ja'far defended on 9/10/2019.
Maria Castaldo (co-advised with Fabio Fagnani) defended on 8/10/2019.
Martina Vanelli (co-advised with Fabio Fagnani) defended on 8/10/2019.
Alessandro Mastrototaro defended on 15/10/2018.
Domenica Verbaro defended on 15/10/2018.
Simon Paulsson defended on 21/9/2018.
Luca Damonte (co-advised with Fabio Fagnani) defended on 17/9/2018.
Rasmus Stålberg defended on 12/9/2018.
Isabelle Rosenberg defended on 15/6/2018.
Viktor Svensson defended on 15/6/2018.
Joakim Guth defended on 11/10/2017.
Christian Rosdahl defended on 21/8/2017.
Nicolás Bordonaba Mateos defended on 13/1/2016.
Gianluca Brero (co-advised with Fabio Fagnani) defended on 24/3/2014.
Gustav Nilsson defended on 19/8/2013.

Invited seminars and lectures

- P80** University of California, (Berkeley, CA, USA) October 15, 2021.
- P79** ECC Workshop “Modeling and control of power grids, where do we go from here?” June 29, 2021.
- P78** Uppsala University (Uppsala, Sweden), March 9, 2021.
- P77** University of California, (Santa Barbara, CA, USA), February 19, 2021.
- P76** CDC Workshop “Dynamics in Social and Economic Networks,” December 13, 2020.
- P75** Technion, (Haifa, Israel), July 6, 2020.
- P74** University of Groningen, (The Netherlands), May 26, 2020.
- P73** Department of Mathematics, Università di Torino, (Torino, Italy), January 21, 2020.
- P72** Department of Computer Science, Università di Torino, (Torino, Italy), Nov. 28, 2019.
- P71** Politecnico di Torino, (Torino, Italy), September 27, 2019.
- P70** Summer School Cascarix on “Cascading effects and risk management,” (Autrans, France), September 3, 2019.
- P69** 14th SICC International Tutorial Workshop “Modelling, Analysis, and Control of Complex Networks and Cyber-Physical Systems,” (Ischia, Italy) June 30, 2019.
- P68** Chalmers University, (Goteborg, Sweden), May 28, 2019.
- P67** 9th EAI GAMENETS 2019, (Paris, France), April 25, 2019.
- P66** Leibnitz Zentrum für Informatik, (Schloss Dagstuhl, Germany), March 5, 2019.
- P65** Royal Institute of Technology (KTH), (Stockholm, Sweden), January 17, 2019.
- P64** 20th Europ. Conf. on Mathematics for Industry, (Budapest, Hungary), June 18, 2018.
- P63** 2nd Symposium on Management of Future Motorway and Urban Traffic Systems (MFTS-2018), (Ispra, Italy), June 11, 2018.
- P62** 2nd SmartData@PoliTO Workshop on Big Data and Data Science, (Camogli, Italy), March 2, 2018.
- P61** 2nd Symposium on Control of Network Systems (Boston, MA, US), October 16, 2017.
- P60** Italian Meeting on Probability and Mathematical Statistics, (Torino), June 20, 2017.
- P59** Tokyo Institute of Technology, (Tokyo, Japan), March 15, 2017.
- P58** University of Osaka, (Osaka, Japan), March 10, 2017.
- P57 Invited lecture**, SICE International Symposium on Control Systems 2017, (Okayama University, Japan), March 9, 2017.
- P56 Semiplenary lecture**, 22nd International Symposium on Mathematical Theory of Networks and Systems (MTNS), (Minneapolis, MN, USA), July 11–15, 2016.
- P55 Invited PhD course**, Gran Sasso Science Institute (L’Aquila, Italy), May 2016.
- P54 Invited PhD course**, Uppsala University (Uppsala, Sweden), April 2016.
- P53** Institut Henry Poincaré, (Paris, France), February 29, 2016.
- P52** Royal Institute of Technology (KTH), (Stockholm, Sweden), November 19, 2015.
- P51** IPAM, University of California (Los Angeles, CA, USA), October 27, 2015.
- P50** IMA, University of Minnesota, (Minneapolis, MN, USA), October 21, 2015.

- P51** Politecnico di Torino (Torino, Italy), October 9, 2015.
- P49** Lund Mathematical Society, (Lund, Sweden), May 12, 2015.
- P48** Royal Institute of Technology (KTH), (Stockholm, Sweden), March 19, 2015.
- P47** Massachusetts Institute of Technology, (Cambridge, MA, USA), March 2, 2015.
- P46** Los Alamos National Laboratories, (Los Alamos, NM, USA), February 9, 2015.
- P45** ITA Workshop, University of California, (La Jolla, CA, USA), February 5, 2015.
- P44** University of Twente, (Enschede, Netherlands), December 5, 2014.
- P43** Systems and Control Center, University of Groningen (Netherlands), Dec. 2, 2014.
- P42 Invited PhD course**, Dutch Institute of Systems and Control (Utrecht), Dec. 2014.
- P41** SWIRS workshop, Technion (Haifa, Israel), November 11, 2014.
- P40** SCONES workshop, Boston University (Boston, MA, USA), October 28, 2014.
- P39** LCCC Workshop (Lund, Sweden), October 17, 2014.
- P38** Istituto Superiore Sant'Anna, (Pisa, Italy), September 23, 2014.
- P37** Polytechnic of Grenoble, (Grenoble, France), September 15, 2014.
- P36** Linköping University, (Linköping Sweden), September 11, 2014.
- P35** IMT Institute for Advanced Studies, (Lucca, Italy), July 15, 2014.
- P34** MTNS conference, University of Groningen, (Groningen, Netherlands), July 8, 2014.
- P33** NetEcon workshop, University of Austin, (Austin, TX, USA), June 16, 2014.
- P32** Gran Sasso Science Institute, (L'Aquila, Italy), May 22, 2014.
- P31** Politecnico di Torino, (Torino, Italy), November 29, 2013.
- P30** ETH (Zurich, Switzerland), June 18, 2013.
- P29** Université Catholique de Louvain (Louvain la Neuve, Belgium), April 23, 2013.
- P28** INRIA Rhone-Alpes (Grenoble, France), April 11, 2013.
- P27** Yale University (New Haven, CT, USA), April 1, 2013.
- P26** BIRS workshop (Banff, AB, Canada), February 26, 2013.
- P25** LCCC Workshop (Lund, Sweden), October 19, 2012.
- P24 Keynote lecture** at the Hycon2 workshop, Lille (France), August 30, 2012.
- P23** Politecnico di Torino, (Torino, Italy), Feb. 8-9, 2012.
- P22** Allerton Conference, (Monticello, IL, USA), Sept. 28-30, 2011.
- P21** WIDS, Massachusetts Institute of Technology, (Cambridge, MA, USA), June 1, 2011.
- P20** Télécom ParisTech, (Paris, France), May 17, 2011.
- P19** Politecnico di Torino, (Torino, Italy), March 29, 2011.
- P18** ITA Workshop, University of California, (La Jolla, CA, USA), February 10, 2011.
- P17** Massachusetts Institute of Technology, (Cambridge, MA, USA), November 9, 2010.
- P16** 2009 Allerton Conference, (Monticello, IL, USA), September 29, 2010.
- P15** Lund University, Automatic Control Dept., (Lund, Sweden), September 2, 2010.
- P14** Lund University, Mathematical Sciences Centre, (Lund, Sweden), September 1, 2010.

- P13** Lund University, EIT Dept., (Lund, Sweden), August 31, 2010.
- P12** Politecnico di Torino, (Torino, Italy), July 15, 2010.
- P11** University of Illinois, (Urbana Champaign, IL, USA), April 26, 2010.
- P10** ITA Workshop, University of California, (La Jolla, CA, USA), February 5, 2010.
- P9** Politecnico di Torino, (Torino, Italy), November 24, 2009.
- P8** Royal Institute of Technology, (Stockholm, Sweden), November 19, 2009.
- P7** Télécom ParisTech, (Paris, France), April 7, 2009.
- P6** University of California, (Santa Barbara, CA, USA), February 17, 2009.
- P5** University of Padova, (Padova, Italy), October 17, 2007.
- P4** Massachusetts Institute of Technology, (Cambridge, MA, USA), May 7, 2007.
- P3** 3rd Northeastern Control Workshop, (Philadelphia, PA, USA), May 15, 2007.
- P2** Nato-ASI School, (Budapest, Hungary), September 5, 2006.
- P1** Istituto Superiore Mario Boella, (Torino, Italy), May 19, 2005.

Book

- B1** G. Como, B. Bernhardsson, and A. Rantzer (Eds.), *Information and Control in Networks*, Springer Lecture Notes in Control and Information Sciences, 2014.

International Journal Papers

Published or in press

- J28** G. Como, S. Durand, and F. Fagnani, “Optimal Targeting in Supemodular Games,” *IEEE Transactions on Automatic Control*, in press, 2021. DOI: 10.1109/TAC.2021.3129733
- J27** L. Massai, G. Como, and F. Fagnani, “Equilibria and Systemic Risk in Saturated Networks,” *Mathematics of Operations Research*, in press, 2021. DOI: 10.1287/moor.2021.1188
- J26** G. Como and R. Maffioli, “Distributed Dynamic Pricing of Multiscale Transportation Networks,” *IEEE Transactions on Automatic Control*, in press, 2021. DOI: 10.1109/TAC.2021.3065193
- J25** G. Nilsson and G. Como, “Generalized Proportional Allocation Policies for Robust Control of Dynamical Flow Networks,” *IEEE Transactions on Automatic Control*, 67 (1), 32–47, 2022. DOI: 10.1109/TAC.2020.3046026
- J24** G. Como, and G. Nilsson, “On the well-posedness of deterministic queuing networks with feedback control,” *Transportation Research Part B: Methodological*, 150, pp. 323–335, 2021. DOI: 10.1016/j.trb.2021.06.010
- J23** G. Como, F. Fagnani, and L. Zino, “Imitation Dynamics in Population Games on Community Networks,” *IEEE Transactions on Control of Network Systems*, 8 (1), pp. 65–76, 2021. DOI: 10.1109/TCNS.2020.3032873
- J22** G. Nilsson and G. Como, “A Micro-Simulation Study of the Generalized Proportional Allocation Traffic Signal Control,” *IEEE Transactions on Intelligent Transportation Systems*, 21 (4), pp. 1705–1715, 2020. DOI: 10.1109/TITS.2019.2957718

- J21** W.S. Rossi, G. Como, and F. Fagnani, “Threshold models of cascades in large-scale networks,” *IEEE Transactions on Network Science and Engineering*, 6 (2), pp. 158–172, 2019. DOI: 10.1109/TNSE.2017.2777941
- J20** G. Como, “On Resilient Control of Dynamical Flow Networks,” *Annual Reviews in Control*, 43, pp. 80–90, 2017. DOI: 10.1016/j.arcontrol.2017.01.001
- J19** G. Como, E. Lovisari, and K. Savla, “Convexity and robustness of dynamic traffic assignment and freeway network control,” *Transportation Research Part B: Methodological*, 91, pp. 446–465, 2016. DOI: 10.1016/j.trb.2016.06.007
- J18** G. Como and F. Fagnani, “From local averaging to emergent global behaviors: the fundamental role of network interconnections”, *Systems and Control Letters*, 95, pp. 70–76, 2016. DOI: 10.1016/j.sysconle.2016.02.003
- J17** G. Como and F. Fagnani, “Robustness of large-scale stochastic matrices to localized perturbations,” *IEEE Transactions on Network Science and Engineering*, 2 (2), pp. 53–64, 2015. DOI: 10.1109/TNSE.2015.2438818
- J16** G. Como, E. Lovisari, and K. Savla, “Throughput optimality and overload behavior of dynamical flow networks under monotone distributed routing,” *IEEE Transactions on Control of Network Systems*, 2 (1), pp. 57–67, 2015. DOI: 10.1109/TCNS.2014.2367361
- J15** K. Savla, G. Como, and M.A. Dahleh, “Robust network routing under cascading failures,” *IEEE Transactions on Network Science and Engineering*, 1 (1), pp. 53–66, 2014. DOI: 10.1109/TNSE.2014.2373358
- J14** N. Şen, F. Alajaji, S. Yüksel, and G. Como, “Memoryless multiple access channel with asymmetric noisy state information at the encoders,” *IEEE Transactions on Information Theory*, 59 (11), pp. 7052–7070, 2013. DOI: 10.1109/TIT.2013.2276612
- J13** G. Como, K. Savla, D. Acemoglu, M.A. Dahleh, and E. Frazzoli, “Stability analysis of transportation networks with multiscale drivers decisions,” *SIAM Journal on Control and Optimization*, 51 (1), pp. 230–252, 2013. DOI: 10.1137/110820804
- J12** D. Acemoglu, G. Como, F. Fagnani, and A. Ozdaglar, “Opinion fluctuations and disagreement in social networks,” *Mathematics of Operation Research*, 38 (1), pp. 1–27, 2013. DOI: 10.1287/moor.1120.0570
- J11** G. Como, K. Savla, D. Acemoglu, M.A. Dahleh, and E. Frazzoli, “Robust distributed routing in dynamical flow networks – Part II: Strong resilience, equilibrium selection, and cascaded failures,” *IEEE Transactions on Automatic Control*, 58 (2), pp. 333–348, 2013. DOI: 10.1109/TAC.2012.2209975 **2015 George S. Axelby Outstanding Paper Award.**
- J10** G. Como, K. Savla, D. Acemoglu, M.A. Dahleh, and E. Frazzoli, “Robust distributed routing in dynamical flow networks – Part I: Locally responsive policies and weak resilience,” *IEEE Transactions on Automatic Control*, 58 (2), pp. 317–332, 2013. DOI: 10.1109/TAC.2012.2209951
- J9** F. Garin, G. Como, and F. Fagnani, “The performance of serial turbo codes does not concentrate,” *IEEE Transactions on Information Theory*, 58 (5), pp. 2570–2588, 2012. DOI: 10.1109/TIT.2012.2184673
- J8** G. Como and F. Fagnani, “Scaling limits for continuous opinion dynamics systems,” *The Annals of Applied Probability*, 21 (4), pp. 1537–1567, 2011. DOI: 10.1214/10-AAP739

- J7** G. Como and S. Yüksel, “On the capacity of finite state multiple access channels with asymmetric state information at the encoder,” *IEEE Transactions on Information Theory*, 57 (3), pp. 1267–1273, 2011. DOI: 10.1109/TIT.2011.2104570
- J6** R. Carli, G. Como, P. Frasca, and F. Garin, “Distributed averaging on digital erasure networks,” *Automatica*, 47, pp. 115–121, 2011. DOI: 10.1016/j.automatica.2010.10.015
- J5** G. Como, “Group codes outperform binary coset codes on non-binary symmetric memoryless channels,” *IEEE Transactions on Information Theory*, 56 (9), pp. 4321–4334, 2010. DOI: 10.1109/TIT.2010.2054330
- J4** G. Como, F. Fagnani, and S. Zampieri, “Anytime reliable transmission of real-valued information through digital noisy channels,” *SIAM Journal on Control and Optimization*, 48 (6), 3903–24, 2010. DOI: 10.1137/09074601X
- J3** G. Como and F. Fagnani, “The capacity of finite Abelian group codes over symmetric memoryless channels,” *IEEE Transactions on Information Theory*, 55 (5), pp. 2037–2054, 2009. DOI: 10.1109/TIT.2009.2015992
- J2** G. Como, S. Yüksel, and S. Tatikonda, “The error exponent of variable-length codes over Markov channels with feedback,” *IEEE Transactions on Information Theory*, 55 (5), 2139–2160, 2009. DOI: 10.1109/TIT.2009.2015989
- J1** G. Como and F. Fagnani, “Average spectra and minimum distances of low-density parity-check codes over Abelian groups,” *SIAM Journal on Discrete Mathematics*, 23 (1), pp. 19–53, 2008. DOI: 10.1137/070686615

Submitted papers and preprints

- J33** L. Arditti, G. Como, F. Fagnani, and M. Vanelli, “Robust coordination in networks,” submitted to *IEEE Transactions on Automatic Control*, 2021.
- J32** L. Cianfanelli, G. Como, A. Ozdaglar, and F. Parise, “Optimal intervention in traffic networks,” submitted to <https://arxiv.org/abs/2109.12685>, 2021.
- J31** C. Ravazzi, G. Como, M. Garetto, E. Leonardi, and A. Tarable, “Asynchronous semi-anonymous dynamics over large-scale networks,” submitted to *Random Structures & Algorithms*, 2020.
- J30** L. Arditti, G. Como, and F. Fagnani, “Separable Games,” submitted to *Mathematics of Operations Research*, 2020.
- J29** L. Zino, G. Como, and F. Fagnani, “Fast Spread in Controlled Evolutionary Dynamics,” submitted to *IEEE Transactions on Control of Network Systems*, 2021.

Italian Journal Papers

- O2** “I sistemi multi-agente e gli algoritmi di consenso,” *La Matematica nella Società e nella Cultura — Rivista dell’Unione Matematica Italiana*, Serie I, 5 (1), pp. 1–29, 2012.
- O1** “Ensemble di codici su gruppi abeliani,” *La Matematica nella Società e nella Cultura: Rivista dell’Unione Matematica Italiana*, Serie I, 2 (2), pp. 227–230, 2009.

Phd Thesis

- PhD** “Ensembles of codes over Abelian groups,” advisor Prof. Fabio Fagnani, co-advisor Prof. Andrea Bacciotti, Politecnico di Torino, March 2008.

Proceedings of refereed international conferences

- C57** L. Massai, G. Como, and F. Fagnani, “Equilibria in Network Constrained Energy Markets,” in *Proc. of the 2022 European Control Conference (ECC 2022)*, (London,UK), July 12–15, 2022. Accepted
- C56** L. Cianfanelli, F. Parise, D. Acemoglu, G. Como, and A. Ozdaglar, “Lockdown interventions in SIR models: Is the reproduction number the right control variable?,” (INVITED) in *Proc. of the 60th IEEE Conference on Decision and Control (CDC 2021)*, pp. 4254–4259 (Austin, TX, USA), December 14–17, 2021. DOI: 10.1109/CDC45484.2021.9682977
- C55** L. Arditti, G. Como, F. Fagnani, and M. Vanelli, “Equilibria and learning dynamics in mixed network coordination/anti-coordination games,” (INVITED) in *Proc. of the 60th IEEE Conference on Decision and Control (CDC 2021)*, pp. 4982–4987 (Austin, TX, USA), December 14–17, 2021. DOI: 10.1109/CDC45484.2021.9683414
- C54** M. Alutto, G. Como, and F. Fagnani, “On SIR epidemic models with feedback-controlled interactions and network effects,” (INVITED) in *Proc. of the 60th IEEE Conference on Decision and Control (CDC 2021)*, pp. 5562–5567 (Austin, TX, USA), December 14–17, 2021. DOI: 10.1109/CDC45484.2021.9683007
- C53** A. Ja’far, G. Nilsson, and G. Como, “Data Augmentation of IMU Signals and Evaluation via a Semi-Supervised Classification of Driving Behavior,” in *Proc. of the 23rd Intelligent Transportation Systems Conference (IEEE ITSC 2020)*, pp. 1–6 (Rhodes, Greece), September 20–23, 2020. DOI: 10.1109/ITSC45102.2020.9294496
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C44 R. Maffioli and G. Como, “Stability and optimality of multi-scale transportation networks with distributed dynamic tolls,” (INVITED) in *Proc. of the 57th IEEE Conference on Decision and Control (CDC 2018)*, pp. 211–216, (Miami Beach, FL, USA), December 17–19, 2018.

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