

# Lorenzo Zino — Curriculum Vitæ

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## Brief Summary

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BS (2012), MS (2014), and PhD (2018) in Applied Mathematics from Politecnico di Torino. From 2018 to 2022, I held research fellowships at New York University (US), Politecnico di Torino (Italy), and University of Groningen (Netherlands). In 2022, I joined the Department of Electronics and Telecommunications, Politecnico di Torino as an Assistant Professor. My research interests include modeling, analysis, and control of dynamical processes on networks (e.g., epidemics, opinion dynamics, innovation diffusion), graph theory, applied probability, and game theory. My research production consists of more than 90 international scientific publications, including more than 50 papers in scientific journals. I gave more than 50 presentations and seminars at national and international conferences, universities, and research centers, and I organized 8 invited sessions and 2 workshops at conferences, chairing 7 sessions. I worked as lecturer and teaching assistant for more than 10 Bachelor and Master courses. I co-supervised 3 PhD students, 9 master students, and several bachelor students. I am Senior Member of the IEEE and the recipient of the 2024 IEEE CSS Italy Best Young Author Journal Paper Award. I am Member of the Editorial Board of the International Journal of Control, the Journal of Computational Science, Scientific Reports, and the IEEE Control Systems Letters; Member of the Conference Editorial Board for the IEEE CSS and the EUCA, and of the Program Committee of several national and international conferences.

## Current Position

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**Oct 2023 – ongoing: Senior Assistant Professor (RTDb)**

Department of Electronics and Telecommunications, Politecnico di Torino, Torino, Italy

## Previous Positions

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**Oct 2022 – Sep 2023: Junior Assistant Professor (RTDa)**

Department of Electronics and Telecommunications, Politecnico di Torino, Torino, Italy

**Oct 2019 – Sep 2022: PostDoc Researcher**

Faculty of Science and Engineering, University of Groningen, Groningen, The Netherlands

**Jun 2019 – Jul 2019: PostDoc Assistant Research Scientist**

Department of Mechanical and Aerospace Engineering, Tandon School of Engineering, New York University, Brooklyn NY, US

**Jun 2018 – May 2019: Research Assistant**

Department of Mathematical Sciences “G. L. Lagrange,” Politecnico di Torino, Torino, Italy

**Nov 2014 – Oct 2018: Phd Student in Pure and Applied Mathematics**

Department of Mathematical Sciences “G. L. Lagrange,” Politecnico di Torino, Torino, Italy

## Education and Titles

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**Italian National Academic Qualification as Associate Professor:** Automatic Control — November 20, 2023

**PhD Pure and Applied Mathematics:** Politecnico di Torino, Università di Torino (F. Fagnani) — *cum laude*, Oct 9, 2018

**MS Mathematical Engineering:** Politecnico di Torino (F. Fagnani) — *110/110 cum laude*, Jul 24, 2014

**BS Applied Mathematics:** Politecnico di Torino (P. Siri) — *110/110*, Oct 11, 2012

**High School Degree:** Liceo Scientifico “G. Galilei” (Borgomanero, Italy) — *100/100*, Jul 2008

## Extended Visiting Periods

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**School of Computer and Mathematical Sciences, University of Adelaide, Adelaide, Australia:** Jul–Aug 2025

**Centre for Optimisation and Decision Science, Curtin University, Perth, Australia:** Jul–Sep 2023

**Department of Mathematical Sciences, Politecnico di Torino, Torino, Italy:** Sep 2019, Nov 2019

**Department of Mechanical and Aerospace Engineering, New York University, Brooklyn NY, US:** Dec 2017–Mar 2018

**Department of Automatic Control, Lund University, Lund, Sweden:** Sep–Dec 2015

## Participation to Conferences, Workshops, Schools, and Symposia.....

- 64th IEEE CDC Conference on Decision and Control, Rio de Janeiro, Brazil, Dec 9-12, 2025
- CDC workshop on socio-inspired and socially aware control for complex systems, Rio de Janeiro, Brazil, Dec 9, 2025
- Bridging the inter-disciplinary gap in the mathematical modeling of social phenomena, Banff, Canada, Nov, 2025
- 2025 European Control Conference, Thessaloniki, Greece, Jun 24-27, 2025
- 2025 SIAM Conference on Dynamical Systems, Denver CO, US, May 11-15, 2025
- Computational models for enhanced crisis preparedness, Leiden, The Netherlands, Jan 27-31, 2025
- 63rd IEEE CDC Conference on Decision and Control, Milan, Italy, Dec 16-19, 2024
- IEEE CDC Workshop on Complex Socio-Technical Networked Dynamics, Milan, Italy, Dec 15, 2024
- 13th International Conference on Complex Networks and their Applications, Istanbul, Turkey, Dec 10-12, 2024
- AUTOMATICA.IT 2024, Bolzano, Italy, Sep 11-13, 2024
- 2024 European Control Conference, Stockholm, Sweden, Jun 25-28, 2024
- ELLIIT Focus Period Symposium on Network Dynamics and Control, Linköping, Sweden, Sep 20-22, 2023
- AUTOMATICA.IT 2023. Catania, Italy, Sep 6-8, 2023
- 22nd IFAC World Congress, Yokohama, Japan, Jul 9-14, 2023
- 2023 American Control Conference, San Diego CA, US, May 31 - Jun 2, 2023
- Workshop “From behaviors and codes to intelligent network systems,” Padoa, Italy, May 11-12, 2023
- Preparing for the next crisis: Modeling and simulation for disaster risk reduction, Groningen, April 4, 2023
- Workshop on Algorithmic Game Theory, Mechanism Design and Learning, Turin, Italy, Nov 8-11, 2022
- 41st Benelux Meeting on Systems and Control, Bruxelles, Belgium, Jul 5-7, 2022
- Dutch Network Science Society Symposium 2022, Leiden, The Netherlands, May 19, 2022
- NetSciX 2022, Porto, Portugal, Feb 8-11, 2022
- 60th IEEE CDC Conference on Decision and Control (online), Dec 13-17, 2021
- 29th Mediterranean Conference on Control and Automation (online), Jun 22-25, 2021
- IEEE CDC Workshop on Dynamics in Social and Economic Networks (online), Dec 12-13, 2020
- NetSci 2020 (online), Sep 17-25, 2020
- AUTOMATICA.IT 2020 (online), Sep 9-11, 2020
- 21st IFAC World Congress (online), Jul 13-17, 2020
- IEEE-CSS Italy Workshop on Modeling and Control of the COVID-19 Outbreak (online), Apr 24, 2020
- 39th Benelux Meeting on Systems and Control, Elspeet, The Netherlands, Mar 10-12, 2020
- 8th Conference on Complex Networks and their Applications, Lisbon, Portugal, Dec 10-12, 2019
- Workshop on Network Dynamics in the Social, Economic, and Financial Sciences, Turin, Italy, Nov 5-8, 2019
- Workshop on Resilient Control of Infrastructure Networks, Turin, Italy, Sep 24-27, 2019
- NetSci 2019: Conference of the Network Science Society, Burlington VT, US, May 27-31, 2019
- 13th SICC International Tutorial Workshop, Turin, Italy, Oct 29-30, 2018
- 7th IFAC Workshop NecSys, Groningen, The Netherlands, Aug 27-28, 2018
- 2018 European Control Conference, Limassol, Cyprus, Jun 12-15, 2018
- 6th Conference on Complex Networks and their Applications, Lyon, France, Nov 29 - Dec 1, 2017
- 20th IFAC World Congress, Toulouse, France, Jul 10-14, 2017
- First Italian Meeting on Probability and Mathematical Statistics, Turin, Italy, Jun 19-22, 2017
- 5th Workshop on Complex Networks and their Applications, Milan, Italy, Nov 30 - Dec 2, 2016
- 22nd International Symposium MTNS, Minneapolis MN, US, Jul 12-15, 2016
- School on Information Processing for Large Networks, Les Diablerets, Switzerland, Jun 8-12, 2015

## Teaching Experience

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### Main Lecturer.....

- Industrial Automation Laboratory, Professional Bachelor at TTPU (Uzbekistan), 30h, yearly since Spring 2024
- Modelling and simulation of mechatronic systems, MEng at Politecnico di Torino, 60h, yearly since Fall 2023
- Industrial Automation Laboratory, Professional Bachelor at Politecnico di Torino, 40h, yearly since Fall 2023

### Co-lecturer, Teaching Assistant, and Guest Lecturer.....

- Networked Control Systems, MEng at Politecnico di Torino, 10/16h, yearly since Fall 2023 (TA)
- Convex optimization and engineering applications, MEng at Politecnico di Torino, 30h, Fall 2022 (TA)
- Laboratory of Industrial Automation, Professional Bachelor at Politecnico di Torino, 20h, Fall 2022 (co-lecturer)
- Modeling and Analysis of Complex Networks, BEng at University of Groningen, 2h, Spring 2020–22 (guest lecturer)
- Mathematical Analysis II, BEng at Politecnico di Torino, 50h, Fall 2018 (TA)
- Fundamentals of Mathematics 2, BMgt at ESCP Europe, 6/9h, Fall 2016–18 and Spring 2018 (TA)
- Complex Analysis, BS in Physics and Mathematics at Politecnico di Torino, 30h, Spring 2017 (TA)
- Dynamics on Networks, MMath at Politecnico di Torino, 20/30h, Spring 2015–17 (TA and co-lecturer)

## Supervision.....

**PhD students:** Jinze Wu (with A. Rizzo, joint PhD program with Southern University of Science and Technology), Luca Ambrosino (with G. C. Calafiore, A. Rizzo, and VinUniversity), Elisa Viola (with A. Rizzo and ISI Foundation)

**Current master students:** F. B. Brovia (with M. Porfiri)

**Past master students:** R. Pillai, C. Sorkale and S. Ravipati, L. Ambrosino, V. Gulino, G. Marinello, A. Casu, and F. Celino

## Other Academic Activities.....

**Piano Lauree Scientifiche:** Laboratory “Maths and Society” with prof. F. Ceragioli and B. Franci for high school students

**Courses of Study Boards:** Ingegneria Gestionale e della Produzione; Ingegneria Informatica, del Cinema e Meccatronica

**Member of PhD Examining Committees:**

- Luke Gong, Faculty of Science and Engineering, University of Groningen, the Netherlands (April 19, 2022)
- Kathinka Frieswijk, Faculty of Science and Engineering, University of Groningen, the Netherlands (June 21, 2024)
- Riccardo Vasellini, Department of Information Engineering and Mathematics, University of Siena, Italy (July 29, 2025)

**Member of PhD Reading Committees:**

- Gian Carlo Maffettone, University of Naples Federico II, Italy (Defense: January 2025)
- Riccardo Vasellini, University of Siena, Italy (Defense: July 2025)

## Grants, Scholarships, and Awards

**2025:** *Best Paper Award.* CoDIT 2025: International Conference on Control, Decision and Information Technologies ([C26])

**2024:** *Best Paper Award.* IEEE CSS Italy Best Young Author Journal Paper Award 2024 ([J41], €500)

**2024:** *IEEE Senior Membership* (“honor bestowed only to those who have made significant contributions to the profession”)

**2024:** *Incentivization for multi-disciplinary projects.* DET, Politecnico di Torino (€8k, with prof. G. Turvani)

**2024:** *Wiley Top Downloaded Articles during its first 12 months of publication* ([J26] in *Advanced Theory and Simulations*)

**2023:** *Wiley Top Downloaded Articles during its first 12 months of publication* ([J17] in *Advanced Theory and Simulations*; [J21, J24] in *International Journal of Robust and Nonlinear Control*)

**2023:** *Wiley Top Cited Article 2021-2022* ([J17] in *Advanced Theory and Simulations*)

**2023:** *Five Highly Cited Articles 2021* ([J18] in *Journal of the Royal Society Interface in 2021*)

**2022–24:** *Excellent Reviewer for the IEEE Transactions on Network Science & Engineering*

**2022:** *Wiley Top Cited Article 2020-2021* ([J17] in *Advanced Theory and Simulations*)

**2021:** *Borgomanerese dell'anno.* Person of the year from the Municipality of Borgomanero (NO), Italy

**2018:** *Honorable Mention.* Finalist of the Young Author Award at the NecSys 2018 ([C5])

**2016:** *Quality Award.* Recognition of excellence in research. Politecnico di Torino (€7k)

**2014–2017:** *PhD Scholarship.* Full Salary. Università di Torino, Politecnico di Torino (€13.6k/year)

**2009:** *Iniziativa “Vinci un PC.”* Award for best students in the entrance test. Politecnico di Torino

## Publications

### Journal Papers.....

**[J59]:** Zino L., Rizzo A., *Assessing Reactive Responses and Gathering Restrictions for Eradicating Epidemic Diseases on Networks with Higher-Order Interactions.* Accepted for publication in *IEEE Transactions on Control Network Systems*, 2025.

**[J58]:** Cao M., Ye. M., Zino L., *Control of networked cyber-physical-human systems.* Accepted for publication in *Nature Reviews Electrical Engineering*, 2025 (doi: 10.1038/s44287-025-00224-z).

**[J57]:** Singh V.K., Zino L., Muinos G., Scherpen J.M.A., Cucuzzella M., *An opinion dynamics approach to model and analyze the behavior of consumers in an energy network.* Published online in the *European Journal of Control*, 2025 (doi: 10.1016/j.ejcon.2025.101370).

**[J56]:** Raineri R., Zino L., Proskurnikov A., *FJ-MM: Friedkin-Johnsen Opinion Dynamics Model with Memory and Multi-Hop Social Influence.* Published online in the *European Journal of Control*, 2025 (doi: 10.1016/j.ejcon.2025.101306).

**[J55]:** Liang H., Ye M., Zino L., Xia W., *Coevolution of Actions and Opinions in Networks of Coordinating and Anti-Coordinating Agents.* *IFAC Journal of Systems and Control*, **33**, 100325, 2025 (doi: 10.1016/j.ifacsc.2025.100325).

**[J54]:** Wu J., Zino L., Lin Z., Rizzo A., *Distributed Finite-Time Cooperative Localization for Three-Dimensional Sensor Networks.* *IEEE Transactions on Networking*, **33**(5), 2764–2778, 2025 (doi: 10.1109/TON.2025.3574678).

**[J53]:** Zino L., Fracastoro G., Proskurnikov A., Calafiore G.C., *On the Influence of Network Structure on the Resilience and Losses of Financial Systems.* Accepted for publication in the *Journal of Mechanism and Institution Design*, 2025.

- [J52]: Zino L., Ye M., Calafiore G.C., Rizzo A., *Equilibrium Selection in Replicator Equations Using Adaptive-Gain Control*. IEEE Transactions on Automatic Control, **70**(10), 6799–6814, 2025 (doi: 10.1109/TAC.2025.3567253).
- [J51]: Frieswijk K., Zino L., Morse A.S., Cao M., *A behavioural-environmental model to study the impact of climate change denial on environmental degradation*. Physica D, **476**, 134648, 2025 (doi: 10.1016/j.physd.2025.134648).
- [J50]: Fiandrino S., Bizzotto A., Guzzetta G., Merler S., Baldo F., Valdano E., Mateo-Urdiales A., Bella A., Celino F., Zino L., Rizzo A., Li Y., Perra N., Giannini C., Milano P., Paolotti D., Quaggiotto M., Rossi L., Vismara I., Vespignani A., Gozzi N., *Collaborative forecasting of influenza-like illness in Italy: the Influcast experience*. Epidemics, **50**, 100819, 2025 (doi: 10.1016/j.epidem.2025.100819).
- [J49]: Corsin J.J., Zino L., Ye M., *An evidence-accumulating drift-diffusion model of competing information spread on networks*. Chaos, Solitons & Fractals, **192**, 115935, 2025 (doi: 10.1016/j.chaos.2024.115935).
- [J48]: Calafiore G.C., Fracastoro G., Zino L., *Identification of Piecewise Constant Parameters in Nonlinear Models*. European Journal of Control, **81**, 101151, 2025 (doi: 10.1016/j.ejcon.2024.101151).
- [J47]: Parino F., Zino L., Rizzo A., *Optimal control of endemic epidemics diseases with behavioral response*. IEEE Open Journal of Control Systems, **3**, 483–496, 2024 (doi: 10.1109/OJCSYS.2024.3488567).
- [J46]: Zino L., Giardini F., Vilone D., Cao M., *On Modeling Collective Risk Perception via Opinion Dynamics*. European Journal of Control, **80**(Part A), 101036, 2024 (doi: 10.1016/j.ejcon.2024.101036).
- [J45]: Mlakar Ž., Bolderdijk J. W., Risselada H., Fennis B. M., Ye M., Zino L., Cao M., *Social Tipping Games: Experimental Paradigms for Studying Social Movements*. Journal of the Association for Consumer Research, **9**(4), 427-440, 2024 (doi: 10.1086/731916).
- [J44]: Zino L., Ye M., Anderson B.D.O., *Modeling and analyzing competitive epidemic diseases with partial and waning virus-specific and cross-immunity*. IFAC Journal of Systems and Control, **28**, 100262, 2024 (doi: 10.1016/j.ifacsc.2024.100262).
- [J43]: Hoffmann T., Ye M., Zino L., Cao M., Rauws W., Bolderdijk J.W., *Overcoming Inaction: An Agent-Based Modelling Study of Social Interventions that Promote Systematic Pro-Environmental Change*. Journal of Environmental Psychology, **94**, 102221, 2024 (doi: 10.1016/j.jenvp.2023.102221).
- [J42]: Gao T., Zino L., Ye M., *Effect of network structure and committed minority placement in promoting social diffusion*. IEEE Transactions on Computational Social Systems, **11**(2), 2326-2339, 2024 (doi: 10.1109/TCSS.2023.3303568).
- [J41]: Dehghani Aghbolagh H., Ye M., Zino L., Chen Z., Cao M., *Coevolutionary Dynamics of Actions and Opinions in Social Networks*. IEEE Transactions on Automatic Control, **68**(12), 7708-7723, 2023 (doi: 10.1109/TAC.2023.3290771).  
IEEE CSS Italy Best Young Author Journal Paper Award 2024
- [J40]: Frieswijk K., Zino L., Cao M., *A Polarized Temporal Network Model to Study the Spread of Recurrent Epidemic Diseases in a Partially Vaccinated Population*. IEEE Transactions on Network Science and Engineering, **10**(6), 3732-3743, 2023 (doi: 10.1109/TNSE.2023.3272472).
- [J39]: Zino L., Como G., Fagnani F., *Fast Spread in Controlled Evolutionary Dynamics*. IEEE Transactions on Control of Network Systems, **10**(3), 1555–1567, 2023 (doi: 10.1109/TCNS.2023.3234593).
- [J38]: Zino L., Rizzo A., Porfiri M., *The impact of deniers on epidemics: A temporal network model*. IEEE Control Systems Letters, **7**, 685–690, 2022 (doi: 10.1109/LCSYS.2022.3219772).
- [J37]: Zino L., Ye M., Cao M., *Facilitating innovation diffusion in social networks using dynamic norms*. PNAS Nexus, **1**(5), pgac229, 2022 (doi: 10.1093/pnasnexus/pgac229).
- [J36]: Truszkowska A., Zino L., Butail S., Caroppo E., Jiang Z.P., Rizzo A., Porfiri M., *Exploring a COVID-19 endemic scenario: high-resolution agent-based modeling of multiple variants*. Advanced Theory and Simulations, **6**, 2200481, 2022 (doi: 10.1002/adts.202200481). Cover of the January 2023 Issue of Advanced Theory and Simulations.
- [J35]: Burbano Lombana D.A., Zino L., Butail S., Caroppo E., Jiang Z.P., Rizzo A., Porfiri M., *Activity-driven network modeling and control of the spread of two concurrent epidemic strains*. Applied Network Science, **7**, 66, 2022 (doi: 10.1007/s41109-022-00507-6).
- [J34]: Wang Q., Diao W., Zino L., Peng X., Zhong W., *Observer-Based Secure Event-Triggered Bipartite Consensus Control of Linear Multiagent Systems Subject to Denial-of-Service Attacks*. IEEE Transactions on Circuits and Systems II: Express Briefs, **69**(12), 5054-5058, 2022 (doi: 10.1109/TCSII.2022.3201513).
- [J33]: Calafiore G.C., Parino F., Zino L., Rizzo A., *Dynamic Planning of a Two-Dose Vaccination Campaign with Uncertain Supplies*. European Journal of Operational Research, **304**(3), 1269–1278, 2023 (doi: 10.1016/j.ejor.2022.05.009).
- [J32]: Wang Q., Zino L., Tan D., Xu J., Zhong W., *Fully Distributed Quantized Secure Bipartite Consensus Control of Nonlinear Multiagent Systems Subject to Denial-of-Service Attacks*. Neurocomputing, **505**, 101–115, 2022 (doi: 10.1016/j.neucom.2022.07.047).
- [J31]: Govaert A., Zino L., Tegling E., *Population games on dynamic community networks*. IEEE Control Systems Letters, **6**, 2695–2700, 2022 (doi: 10.1109/LCSYS.2022.3174916).
- [J30]: Frieswijk K., Zino L., Ye M., Rizzo A., Cao M., *A mean-field analysis of a network behavioural–epidemic model*. IEEE Control Systems Letters, **6**, 2533–2538, 2022 (doi: 10.1109/LCSYS.2022.3168260).

- [J29]: Truszkowska A., Fayed M., Wei S., **Zino L.**, Butail S., Caroppo E., Jiang Z.P., Rizzo A., Porfiri M., *Urban determinants of COVID-19 spread: A comparative study across three cities in New York State*. *Journal of Urban Health*, **99**(5), 909–921, 2022 (doi: 10.1007/s11524-022-00623-9).
- [J28]: Bongiorno C. and **Zino L.**, *A multi-layer network model to assess school opening policies during a vaccination campaign: a case study on COVID-19 in France*. *Applied Network Science*, **7**, 12, 2022 (doi: 10.1007/s41109-022-00449-z).
- [J27]: Wang Q., He W., **Zino L.**, Tan D., Zhong W., *Bipartite Consensus for a Class of Nonlinear Multi-agent Systems Under Switching Topologies: A Disturbance Observer-Based Approach*. *Neurocomputing*, **488**, 130–143, 2022 (doi: 10.1016/j.neucom.2022.02.081).
- [J26]: Truszkowska A., **Zino L.**, Butail S., Caroppo E., Jiang Z.P., Rizzo A., Porfiri M., *Predicting the effects of waning vaccine immunity against COVID-19 through high-resolution agent-based modeling*. *Advanced Theory and Simulations*, **5**, 2100521, 2022 (doi: 10.1002/adts.202100521). [Cover of the June 2022 Issue of Advanced Theory and Simulations](#). [Wiley Top Downloaded Article 2022](#).
- [J25]: Hagens A., Cordova-Pozo K., Postma M.J., Wilschut J., **Zino L.**, van der Schans J., *Reconstructing the effectiveness of policy measures to avoid next-wave COVID-19 infections and deaths using a dynamic simulation model: implications for health technology assessment of vaccination*. *Frontiers in Medical Technologies*, **3**, 666581, 2022 (doi: 10.3389/fmedt.2021.666581).
- [J24]: Frieswijk K., **Zino L.**, Cao M., *A time-varying network model for sexually transmitted infections accounting for behavior and control actions*. *International Journal of Robust and Nonlinear Control*, **33**(9), 4784–4807, 2023 (doi: 10.1002/rnc.5930). [Wiley Top Downloaded Article 2021](#).
- [J23]: **Zino L.** and Cao M., *Analysis, Prediction, Control of Epidemics: A Survey from Scalar to Dynamic Network Models*. *IEEE Circuits and Systems Magazine*, **21**(4), 4–23, 2021 (doi: 10.1109/MCAS.2021.3118100).
- [J22]: Ye M., **Zino L.**, Mlakar Ž., Bolderdijk J. W., Risselada H., Fennis B. M., Cao M., *Collective patterns of social diffusion are shaped by individual inertia and trend-seeking*. *Nature Communications*, **12**, 5698, 2021 (doi: 10.1038/s41467-021-25953-1).
- [J21]: Parino F., **Zino L.**, Calafiore G.C., Rizzo A., *A model predictive control approach to optimally devise a two-dose vaccination rollout: A case study on COVID-19 in Italy*. *International Journal of Robust and Nonlinear Control*, **33**(9), 4808–4824, 2021 (doi: 10.1002/rnc.5728). [Wiley Top Downloaded Article 2021](#)
- [J20]: Ye M., **Zino L.**, Rizzo A., Cao M., *Game-theoretic modeling of collective decision making during epidemics*. *Physical Review E*, **104**, 024314, 2021 (doi: 10.1103/PhysRevE.104.024314).
- [J19]: Truszkowska A., Thakore M., **Zino L.**, Butail S., Caroppo E., Jiang Z.P., Rizzo A., Porfiri M., *Designing the safe reopening of US towns through high-resolution agent-based modeling*. *Advanced Theory and Simulations*, **4**, 2100157, 2021 (doi: 10.1002/adts.202100157). [Cover of the September 2021 Issue of Advanced Theory and Simulations](#)
- [J18]: Parino F., **Zino L.**, Porfiri M., Rizzo A., *Modelling and predicting the effect of social distancing and travel restrictions on COVID-19 spreading*. *Journal of the Royal Society Interface*, **18**, 20200875, 2021 (doi: 10.1098/rsif.2020.0875). [Top five most highly cited papers in the Journal of the Royal Society Interface in 2021](#)
- [J17]: Truszkowska A., Behring B., Hasanyan J., **Zino L.**, Butail S., Caroppo E., Jiang Z.P., Rizzo A., Porfiri M., *High-resolution agent-based modeling of COVID-19 spreading in a small town*. *Advanced Theory and Simulations*, **4**, 2000277, 2021 (doi: 10.1002/adts.202000277). [Cover of the March 2021 Issue of Advanced Theory and Simulations](#). [Wiley Top Cited Paper 2020–2021 and 2021–2022](#). [Wiley Top Downloaded Article 2021](#)
- [J16]: Como G., Fagnani F., **Zino L.**, *Imitation dynamics in population games on community networks*. *IEEE Transactions on Control of Network Systems*, **8**(1), 65–76, 2021 (doi: 10.1109/TCNS.2020.3032873).
- [J15]: Hasanyan J., **Zino L.**, Truszkowska A., Rizzo A., Porfiri M., *Analysis of the Heterogeneous Vectorial Network Model of Collective Motion*. *IEEE Control Systems Letters*, **5**(3), 1103–1108, 2021 (doi: 10.1109/LCSYS.2020.3010630).
- [J14]: Nadini M., **Zino L.**, Rizzo A., Porfiri M., *A multi-agent model to study epidemic spreading and vaccination strategies in an urban-like environment*. *Applied Network Science*, **5**, 68, 2020 (doi: 10.1007/s41109-020-00299-7).
- [J13]: **Zino L.**, Ye M., Cao M., *A two-layer model for coevolving opinion dynamics and collective decision-making in complex social systems*. *Chaos: An Interdisciplinary Journal of Nonlinear Science*, **30**, 083107, 2020 (doi: 10.1063/5.0004787).
- [J12]: **Zino L.**, Rizzo A., Porfiri M., *On assessing control actions for epidemic models on temporal networks*. *IEEE Control Systems Letters*, **4**(4), 797–802, 2020 (doi: 10.1109/LCSYS.2020.2993104)
- [J11]: **Zino L.**, Rizzo A., Porfiri M., *Analysis and control of epidemics in temporal networks with self-excitement and behavioral changes*. *European Journal of Control* **54**, 1–11, 2020 (doi: 10.1016/j.ejcon.2019.12.007).
- [J10]: Hasanyan J., **Zino L.**, Burbano Lombana D.A., Rizzo A., Porfiri M., *Leader-follower consensus on activity-driven networks*. *Proceedings of the Royal Society A*, **476**(2233), 2020 (doi: 10.1098/rspa.2019.0485).
- [J9]: **Zino L.**, Rizzo A., Porfiri M., *Consensus over activity driven networks*. *IEEE Transactions on Control of Network Systems*, **7**(2), 866–877, 2020 (doi: 10.1109/TCNS.2019.2949387).
- [J8]: Surano F.V., Bongiorno C., **Zino L.**, Porfiri M., Rizzo A., *Backbone Reconstruction in Temporal Networks from Epidemic Data*. *Physical Review E*, **100**, 042306, 2019 (doi: 10.1103/PhysRevE.100.042306).

- [J7]: Bongiorno C., **Zino L.**, Rizzo A., *A novel framework for community modeling and characterization in directed temporal networks*. Applied Network Science, **4**(10), 2019 (doi: 10.1007/s41109-019-0119-28).
- [J6]: Nakayama S., Krasner E., **Zino L.**, Porfiri M., *Social information and spontaneous emergence of leaders in human groups*. Journal of the Royal Society: Interface, **16**(151), 2019 (doi: 10.1098/rsif.2018.0938).
- [J5]: **Zino L.**, Rizzo A., Porfiri M., *Modeling memory effects in activity driven networks*. SIAM Journal on Applied Dynamical Systems, **17**(4), 2830–2854, 2018 (doi: 10.1137/18M1171485).
- [J4]: Fagnani F., **Zino L.**, *Time to extinction for the SIS epidemic model: new bounds on the tail probabilities*. IEEE Transactions on Network Science and Engineering, **6**(1), 74–81, 2019 (doi: 10.1109/TNSE.2017.2772320).
- [J3]: **Zino L.**, Rizzo A., Porfiri M., *An analytical framework for the study of epidemic models on activity driven networks*. Journal of Complex Networks, **5**(6), 924–952, 2017 (doi: 10.1093/comnet/cnx056).
- [J2]: Fagnani F., **Zino L.**, *Diffusion of innovation in large scale graphs*. IEEE Transactions on Network Science and Engineering, **4**(2), 100–111, 2017 (doi: 10.1109/TNSE.2017.2678202).
- [J1]: **Zino L.**, Rizzo A., Porfiri M., *A continuous-time discrete-distribution theory for activity-driven networks*. Physical Review Letters, **117**(22), 228302, 2016 (doi: 10.1103/PhysRevLett.117.228302).

### Chapters in Books

- [CH4]: **Zino L.**, Ambrosino L., Rizzo A., Cao M., *Systems and control approaches for modeling the coevolution of epidemics and behavioral response: A COVID-19 case study*. Nonlinear and Constrained Control, Lecture Notes in Control and Information Sciences, vol. 496, (ed. E. Garone et al.), Springer, 2025 (doi: 10.1007/978-3-031-82681-8\_18).
- [CH3]: Ye M., **Zino L.**, *Data-informed modeling of the formation, persistence, evolution of social norms and conventions*. Handbook of Visual, Experimental and Computational Mathematics — Bridges through Data (ed. B. Sriraman), Springer, 2025 (doi: 10.1007/978-3-030-93954-0\_15-1).
- [CH2]: **Zino L.**, Rizzo A., Barzel B., *Network Science and Automation* in Handbook of Automation, 2nd ed. (ed. S.Y. Nof), pp. 251–274, Springer, 2023 (doi: 10.1007/978-3-030-96729-1\_11).
- [CH1]: **Zino L.**, Cao M., *Social Diffusion Dynamics in Cyber-Physical-Human Systems* in Cyber-Physical-Human Systems: Fundamentals and Applications (ed. A. Annaswamy et al.), pp. 43–70, Wiley, 2023 (doi: 10.1002/9781119857433.ch3).

### Conference Papers

- [C31]: **Zino L.**, Boggio M., Volpe D., Orlandi G., Turvani G., Novara C., *A Quantum-Compliant Formulation for Network Epidemic Control*. Accepted for presentation at the 64<sup>th</sup> IEEE Conference on Decision and Control, Dec 2025, Rio De Janeiro, Brazil.
- [C30]: Gavin R., Paarporn K., Ye M., **Zino L.**, Cao M., *Adaptive-Gain Control for Equilibrium Selection in the Logit Dynamics*. Accepted for presentation at the 64<sup>th</sup> IEEE Conference on Decision and Control, Dec 2025, Rio De Janeiro, Brazil.
- [C29]: Calogero L., Pagone M., **Zino L.**, Rizzo A., *An Economic Nonlinear Model Predictive Control Approach for Mitigating Epidemic Spreading on Networks*. Accepted for presentation at the 64<sup>th</sup> IEEE Conference on Decision and Control, Dec 2025, Rio De Janeiro, Brazil.
- [C28]: Volpe D., Orlandi G., Boggio M., Novara C., **Zino L.**, Turvani G., *A Quantum Approach for Optimal Transient Control in Network-Based Epidemic Models*. To appear in the Proceedings of the IEEE International Conference on Quantum Computing and Engineering, Aug-Sep 2025, Albuquerque NM, US.
- [C27]: de Haan F.J., Verhagen H., Franke I.F., **Zino L.**, Rufat S., Zhou X., Vanhée L., Wijermans N., Meyer R., Dignum F., *Disastrous Agent Behaviour — ABM and Behaviour Realism in Disaster Research*. To appear in the Proceedings of the Social Simulation Conference 2025, Aug 2025, Delft, The Netherlands.
- [C26]: Marinello G., **Zino L.**, Novara C., Pagone M., *A Game-theoretic Approach to Cooperative Robust Nonlinear Model Predictive Control for a Network of Unmanned Ground Vehicles*. To appear in the Proceedings of the 11th CoDiT, Jul 2025, Split, Croatia. **Best Paper Award at CoDiT 2025**
- [C25]: **Zino L.**, Casu A., Rizzo A., *A Human-Vector Susceptible–Infected–Susceptible Model for Analyzing and Controlling the Spread of Vector-Borne Diseases*. 23<sup>rd</sup> European Control Conference, Jun 2025, Thessaloniki, Greece (doi: 10.23919/ECC65951.2025.11186881).
- [C24]: **Zino L.** and Rizzo A., *On a Susceptible-Infected-Susceptible Epidemic Model with Reactive Behavioral Response on Higher-Order Temporal Networks*. 63<sup>rd</sup> IEEE Conference on Decision and Control, Dec 2024, Milan, Italy (doi: 10.1109/CDC56724.2024.10886121).
- [C23]: Raineri R., Como G., Fagnani F., Ye M., **Zino L.**, *On a On Controlling a Coevolutionary Model of Actions and Opinions*. 63<sup>rd</sup> IEEE Conference on Decision and Control, Dec 2024, Milan, Italy (doi: 10.1109/CDC56724.2024.10886195)
- [C22]: Franci B., Fabiani F., **Zino L.**, *Generalized Nash equilibrium problems under partial-decision information with biased agents*. 63<sup>rd</sup> IEEE Conference on Decision and Control, Dec 2024, Milan, Italy (doi: 10.1109/CDC56724.2024.10886508).
- [C21]: **Zino L.**, Proskurnikov A., Fracastoro G., Calafiore G., *Structure and shock resistance in financial networks: A numerical*

- study. Complex Networks & Their Applications XIII, Dec 2024, Istanbul, Turkey (doi: 10.1007/978-3-031-82431-9\_9).
- [C20]: Giardini F., Vilone D., **Zino L.**, Cao M., *Homophily in opinion networks affects collective risk perception in heterogeneous populations*. ISCRAM Proceedings, May 2024, Munster, Germany (doi: 10.59297/0aak2a68).
- [C19]: **Zino L.**, Ye M., Rizzo A., Calafiore C.G., *On Adaptive-Gain Control of Replicator Dynamics in Population Games*. 62<sup>nd</sup> IEEE Conference on Decision and Control, Dec 2023, Singapore (doi: 10.1109/CDC49753.2023.10383983).
- [C18]: Pagone M., **Zino L.**, Novara C., *A Pontryagin-based Game-theoretic Approach for Robust Nonlinear Model Predictive Control*. 62<sup>nd</sup> IEEE Conference on Decision and Control, Dec 2023, Singapore (doi: 10.1109/CDC49753.2023.10384002).
- [C17]: **Zino L.**, Ye M., Anderson B.D.O., *On a bi-virus epidemic model with partial and waning immunity*. 22<sup>nd</sup> IFAC World Congress, Jul 2023, Yokohama, Japan. (doi: 10.1016/j.ifacol.2023.10.1551)
- [C16]: **Zino L.** and Ye M., *On incentivizing innovation diffusion in a network of coordinating agents*. 22<sup>nd</sup> IFAC World Congress, Jul 2023, Yokohama, Japan. (doi: 10.1016/j.ifacol.2023.10.1766)
- [C15]: Frieswijk K., **Zino L.**, Morse A.S., Cao M., *Modeling the Co-evolution of Climate Impact and Population Behavior: A Mean-Field Analysis*. 22<sup>nd</sup> IFAC World Congress, Jul 2023, Yokohama, Japan. (doi: 10.1016/j.ifacol.2023.10.355)
- [C14]: Frieswijk K., **Zino L.**, Cao M., *Modelling the Effect of Vaccination and Human Behaviour on the Spread of Epidemic Diseases on Temporal Networks*. 21<sup>st</sup> European Control Conference, Jul 2022, London, UK. (doi: 10.23919/ECC55457.2022.9838287)
- [C13]: **Zino L.**, Ye M., Cao M., *On modeling social diffusion under the impact of dynamic norms*. 60<sup>th</sup> IEEE Conference on Decision and Control, Dec 2021, Austin TX, US (doi: 10.1109/CDC45484.2021.9682999).
- [C12]: Cenedese C., **Zino L.**, Cucuzzella M., Cao M., *Optimal policy design to mitigate epidemics on networks using an SIS model*. 60<sup>th</sup> IEEE Conference on Decision and Control, Dec 2021, Austin TX, US (doi: 10.1109/CDC45484.2021.9683737).
- [C11]: Frieswijk K., **Zino L.**, Cao M., *Modelling Behavioural Preferences in Epidemic Models for Sexually Transmitted Infections on Temporal Networks*. 20<sup>th</sup> European Control Conference, Jun-Jul 2021, Rotterdam, The Netherlands (doi: 10.23919/ECC54610.2021.9654961).
- [C10]: Cunha R., **Zino L.**, Cao M., *On imitation dynamics in population games with Markov switching*. 20<sup>th</sup> European Control Conference, Jun-Jul 2021, Rotterdam, The Netherlands (doi: 10.23919/ECC54610.2021.9655147).
- [C9]: **Zino L.**, Ye M., Cao M., *A Coevolutionary Model for Actions and Opinions in Social Networks*. 59<sup>th</sup> IEEE Conference on Decision and Control, Dec 2020, Jeju Island, Republic of Korea (doi: 10.1109/CDC42340.2020.9303954).
- [C8]: Risselada H., Bolderdijk J. W., Mlakar Ž., Fennis B. M., Ye M., **Zino L.**, *Releasing the brake: How disinhibition frees people and facilitates innovation diffusion*. Proceedings of the European Marketing Academy (49<sup>th</sup>), May 2020, Budapest, Hungary (A2020-64211)
- [C7]: **Zino L.**, Rizzo A., Porfiri M., *Effect of self-excitement and behavioral factors on epidemics on activity driven networks*. 18<sup>th</sup> European Control Conference, Jun 2019, Naples, Italy (doi: 10.23919/ECC.2019.8795748)
- [C6]: Bongiorno C., **Zino L.**, Rizzo A., *On unveiling the community structure of temporal networks*. 57<sup>th</sup> IEEE Conference on Decision and Control, Dec 2018, Miami Beach FL, US (doi: 10.1109/CDC.2018.8619441).
- [C5]: **Zino L.**, Como G., Fagnani F., *Controlling Evolutionary Dynamics in Networks: A Case Study*. 7<sup>th</sup> IFAC Workshop on Distributed Estimation and Control in Networked Systems, Aug 2018, Groningen, The Netherlands (doi: 10.1016/j.ifacol.2018.12.060). **Finalist of the Young Author Award at NecSys18**
- [C4]: **Zino L.**, Como G., Fagnani F., *On stochastic imitation dynamics in large-scale networks*. 17<sup>th</sup> European Control Conference, Jun 2018, Limassol, Cyprus (doi: 10.23919/ECC.2018.8550419).
- [C3]: **Zino L.**, Como G., Fagnani F., *On Imitation Dynamics in Potential Population Games*. 56<sup>th</sup> IEEE Conference on Decision and Control, Dec 2017, Melbourne, Australia (doi: 10.1109/CDC.2017.8263751).
- [C2]: **Zino L.**, Como G., Fagnani F., *Fast Diffusion of a Mutant in Controlled Evolutionary Dynamics*. 20<sup>th</sup> IFAC World Congress, Jul 2017, Toulouse, France (doi: 10.1016/j.ifacol.2017.08.1429).
- [C1]: Fagnani F. and **Zino L.**, *Diffusion of innovation in large scale graphs: a mean field analysis*. 22<sup>nd</sup> International Symposium on Mathematical Theory of Networks and Systems, Jul 2016, Minneapolis MN, US.

### Papers Under Review.....

- Franci B., Fabiani F., **Zino L.**, *On the role of stubbornness in Nash equilibrium problems*.
- Raineri R., Ye M., **Zino L.**, *Controlling a Social Network of Individuals with Coevolving Actions and Opinions*.
- Wu J., Lin Z., Feng R., **Zino L.**, Rizzo A., *DBMR-Loc: A Distributed Sensor Localization Framework for Noisy Distance Measurements*.
- Wu J., **Zino L.**, Lin Z., Rizzo A., *Simultaneous Robot and Feature Localization via Angle-Based Sensing with Barycentric Coordinate Representation*.
- Succar R., **Zino L.**, Silver D., Harvey A., Porfiri M., *When Public Health Meets Public Safety: A Quantitative Approach to the Jail Dilemma During a Pandemic*.
- Licciardi A., Raineri R., Proskurnikov A., Rondoni L., **Zino L.**, *Homophily-based Adaptive Coalition and Client Selection in*

## Federated Learning.

- Wu J., Li Z., Cheng H., **Zino L.**, Lin Z., Rizzo A., *Graph neural network-based reinforcement learning for cooperative network localization.*
- Raineri R., Ye M., **Zino L.**, *On a Closed-loop Controller for the Coevolutionary Model of Actions and Opinions via Broadcasting Information.*
- Davidson E.C., **Zino L.**, Cao M., Ye M., *Modelling the coevolution of opinion dynamics and decision making in social dilemmas.*
- Raineri R., Pagone M., **Zino L.**, Rizzo A., *Mitigating Vector-Borne Diseases on Networks: A Feasible and Stable Nonlinear MPC Approach.*

## Talks, Seminars, and Posters

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- [T60]: *Optimal control of endemic epidemic diseases with behavioral response.* The 64<sup>th</sup> IEEE Conference on Decision and Control, Dec 11, 2025, Rio de Janeiro, Brazil.
- [T59]: *A Quantum-Compliant Formulation for Network Epidemic Control.* The 64<sup>th</sup> IEEE Conference on Decision and Control, Dec 11, 2025, Rio de Janeiro, Brazil.
- [T58]: *A game-theoretic approach for modeling and controlling complex social systems.* Socio-Inspired and Socially Aware Control for Complex Systems (CDC Workshop), Dec 9, 2025, Rio de Janeiro, Brazil.
- [T57]: *Game theoretic models for social dynamics: An analytically-tractable and data-friendly approach.* Bridging the inter-disciplinary gap in the mathematical modeling of social phenomena (BIRS Workshop), Nov 3, 2025, Banff, Canada.
- [T56]: *Modeling and controlling complex social systems: A game-theoretic approach.* Adelaide Data Science Centre Seminar Series, School of Computer and Mathematical Sciences, University of Adelaide, Jul 25, 2025, Adelaide, Australia (invited).
- [T55]: *A Human-Vector Susceptible–Infected–Susceptible Model for Analyzing and Controlling the Spread of Vector-Borne Diseases.* 23rd European Control Conference, Jun 26, 2025, Thessaloniki, Greece.
- [T54]: *Adaptive-Gain Control to Solve the Equilibrium Selection Problem in Population Games.* 2025 SIAM Conference on Dynamical Systems, May 12, 2025, Denver CO, US (invited).
- [T53]: *An adaptive-gain controller to solve the equilibrium selection problem.* Math Colloquium Series, Department of Mathematics, University of Colorado Colorado Springs, May 9, 2025, Colorado Springs CO, US (invited).
- [T52]: *On a Susceptible-Infected-Susceptible Epidemic Model with Reactive Behavioral Response on Higher-Order Temporal Networks.* The 63<sup>rd</sup> IEEE Conference on Decision and Control, Dec 17, 2024, Milan, Italy.
- [T51]: *Adaptive-gain control for evolutionary game-theoretic dynamics.* Complex Socio-Technical Networked Dynamics (CDC Workshop), Dec 15, 2024, Milan, Italy (invited).
- [T50]: *Structure and Shock Resistance in Financial Networks: A Numerical Study.* The 13<sup>th</sup> International Conference on Complex Networks and their Applications, Dec 10, 2024, Istanbul, Turkey.
- [T49]: *An opinion dynamics model for collective risk perception.* AUTOMATICA.IT 2023, Sep 12, 2024, Bolzano, Italy.
- [T48]: *On Modeling Collective Risk Perception via Opinion Dynamics.* 2024 ECC, June 28, 2024, Stockholm (invited).
- [T47]: *On modeling and controlling complex social systems.* Engineering and Technology Institute Groningen, University of Groningen, June 20, 2024, Groningen, The Netherlands (invited).
- [T46]: *Using mathematics to help unlock social diffusion.* IEEE CSS Society Chapter at Kharagpur, Feb 6, 2024, Kharagpur, India (online, invited).
- [T45]: *How mathematical modeling can help unlock social diffusion.* Department of Advanced Computing Sciences, Maastricht University, Jan 24, 2024, Maastricht, The Netherlands (invited).
- [T44]: *On Adaptive-Gain Control for the Replicator Equation.* AUTOMATICA.IT 2023, Sep 7, 2023, Catania, Italy.
- [T43]: *How mathematics can help unlock social diffusion.* Centre for Optimisation and Decision Science, Curtin University, Jul 27, 2023, Perth, Australia (invited).
- [T42]: *Modeling the Co-evolution of Climate Impact and Population Behavior: A Mean-Field Analysis.* The 22<sup>nd</sup> IFAC World Congress, Jul 12, 2023, Yokohama, Japan.
- [T41]: *On incentivizing innovation diffusion in a network of coordinating agents.* The 22<sup>nd</sup> IFAC World Congress, Jul 11, 2023, Yokohama, Japan.
- [T40]: *The Impact of Deniers on Epidemics: A Temporal Network Model.* The 2023 American Control Conference, Jun 2, 2023, San Diego CA, US (invited).
- [T39]: *On incentivizing innovation diffusion in a network of coordinating agents.* Workshop “From behaviors and codes to intelligent network systems,” May 12, 2023, Padoa, Italy (invited).
- [T38]: *Modeling collective decision-making during epidemics.* Minisymposium “Preparing for the next crisis: Modeling and simulation for disaster risk reduction,” Apr 4, 2023, Groningen, The Netherlands (invited).

- [T37]: *Using dynamic norms to facilitate innovation diffusion in networks*. The 41<sup>st</sup> Benelux Meeting on Systems and Control, Jul 6, 2022, Bruxelles, Belgium.
- [T36]: *Toward realistic modeling of social diffusion*. Department of Automatic Control, Lund University, May 10, 2022, Lund, Sweden (invited, online).
- [T35]: *A game-theoretic model for human decision-making during epidemics: application and validation on COVID-19 in Italy*. NetSci-X 2022, Feb 10, 2022, Porto, Portugal.
- [T34]: *Incentivizing social diffusion on networks using a novel game-theoretic model*. NetSci-X 2022, Feb 10, 2022, Porto.
- [T33]: *Toward a realistic modeling of social diffusion on networks*. Institute for Information and Communication Technologies, Electronics and Applied Mathematics, Université catholique de Louvain, Jan 24, 2022, Louvain-la-Neuve, Belgium (invited).
- [T32]: *On modeling social diffusion under the impact of dynamic norms*. The 60<sup>th</sup> IEEE Conference on Decision and Control, Dec 16, 2021, Austin TX, US (online, invited).
- [T31]: *Collective patterns of social diffusion are shaped by individual inertia and trend-seeking*. Norms and Networks Cluster (NNC) Group Meeting, Faculty of Behavioural and Social Sciences, University of Groningen, Nov 5, 2021, Groningen.
- [T30]: *Modeling Collective Behavioral Response to the COVID-19 Pandemic and Non-Pharmaceutical Interventions*. Mediterranean Conference on Control and Automation, Jun 24, 2021, Bari, Italy (online, invited).
- [T29]: *Consensus over activity driven networks: a starting point to examine model-based control with heterogeneous and time-varying patterns of interactions*. Controlling Complex Networks (Satellite Symposium of Network 2021), Jun 23, 2021, Washington DC, US (online, invited).
- [T28]: *Modelling collective decision-making during epidemics*. RxCovea Journal Club, Apr 19, 2021 (online, invited).
- [T27]: *Optimizing self-protective behaviors and confinement in epidemic models on temporal networks*. The 59<sup>th</sup> IEEE Conference on Decision and Control, Dec 17, 2020, Jeju Island, Republic of Korea (online).
- [T26]: *A Coevolutionary Model for Actions and Opinions in Social Networks*. The 59<sup>th</sup> IEEE Conference on Decision and Control, Dec 14, 2020, Jeju Island, Republic of Korea (online, invited).
- [T25]: *Including behavioral mechanisms in models for social diffusion*. Dynamics in Social and Economic Networks (CDC Workshop), Dec 12–13, 2020, Jeju Island, Republic of Korea (online, invited).
- [T24]: *On imitation dynamics in population games on networks with community patterns*. STAEOnline — Online Seminars in Systems Theory and Engineering, Oct 16, 2020, Melbourne, Australia (online, invited).
- [T23]: *Optimizing self-protective behaviors and confinement in epidemic models on temporal networks*. NetSci 2020, Sep 25, 2020, Rome, Italy (online).
- [T22]: *A novel framework to capture the coevolution of opinions and decisions in complex networks*. NetSci 2020 Sep 24, 2020, Rome, Italy (online).
- [T21]: *On imitation dynamics in population games on networks with community patterns*. Multiscale Analysis of Dynamical Processes on Networks (NetSci 2020 Satellite), Sep 20, 2020, Rome, Italy (online, invited).
- [T20]: *A Metapopulation activity-driven network model for COVID-19 in Italy*. AUTOMATICA.IT 2020, Sep 10, 2020, Cagliari, Italy (online, invited).
- [T19]: *On imitation dynamics for potential population games over networks with community patterns*. The 21<sup>th</sup> World Congress of the International Federation of Automatic Control, Jul 2020, Berlin, Germany (online).
- [T18]: *On consensus and collective behavior over heterogeneous temporal networks*. The 21<sup>th</sup> World Congress of the International Federation of Automatic Control, Jul 2020, Berlin, Germany (online).
- [T17]: *A Metapopulation activity-driven network model for COVID-19 in Italy*. IEEE-CSS Italy Workshop on Modeling and Control of the COVID-19 Outbreak, Apr 24, 2020 (online).
- [T16]: *On the inclusion of human cognitive mechanisms in social diffusion*. The 39<sup>th</sup> Benelux Meeting on Systems and Control, Mar 11, 2020, Elspeet, The Netherlands.
- [T15]: *On consensus over heterogeneous temporal networks*. The 8<sup>th</sup> International Conference on Complex Networks and their Applications, Dec 10, 2019, Lisbon, Portugal.
- [T14]: *On imitation dynamics in potential population games*. Network Dynamics in the Social, Economic, and Financial Sciences, Nov 5, 2019, Turin, Italy (invited).
- [T13]: *How to Achieve Fast Spread in Controlled Evolutionary Dynamics*. Resilient Control of Infrastructure Networks, Sep 26, 2019, Turin, Italy (invited).
- [T12]: *How Self-Excitement Dynamics Affects Epidemic Spreading in Time-Varying Networks*. NetSci 2019, May 29, 2019, Burlington VT, US.
- [T11]: *Fast diffusion of mutant mosquitoes in controlled evolutionary dynamics: a case study*. The 13<sup>th</sup> SICC International Tutorial Workshop "Complexity and the City", Oct 29, 2018, Turin, Italy.
- [T10]: *Diffusion Processes on Networks*. PhD Dissertation Defense, Oct 9, 2018, Torino, Italy.

- [T9]: *Controlling Evolutionary Dynamics in Networks: A Case Study*. The 7<sup>th</sup> IFAC Workshop on Distributed Estimation and Control in Networked Systems, Aug 28, 2018, Groningen, the Netherlands (poster).
- [T8]: *Controlling Spreading Processes in Networks*. DISMA Weekly Seminar, Jul 11, 2018, Torino, Italy (invited).
- [T7]: *On stochastic imitation dynamics in large-scale networks*. The 17<sup>th</sup> European Control Conference, Jun 15, 2018, Limassol, Cyprus (invited).
- [T6]: *Diffusion Processes on Networks*. DSL Weekly Seminar, Mar 2, 2018, Brooklyn NY, US (invited).
- [T5]: *Fast diffusion of mutant mosquitoes in controlled evolutionary dynamics*. The 6<sup>th</sup> International Conference on Complex Networks and their Applications, Nov 30, 2017, Lyon, France.
- [T4]: *Fast Diffusion of a Mutant in Controlled Evolutionary Dynamics*. The 20<sup>th</sup> World Congress of the International Federation of Automatic Control, Jul 13, 2017, Toulouse, France.
- [T3]: *Spreading processes in large scale graphs*. First Italian Meeting on Probability and Mathematical Statistics, Jun 20, 2017, Turin, Italy (invited).
- [T2]: *A continuous-time discrete-distribution theory for activity-driven networks*. The 5<sup>th</sup> International Workshop on Complex Networks and their Applications, Dec 2, 2016, Milan, Italy.
- [T1]: *Diffusion of innovation in large scale graphs: a mean field analysis*. 22<sup>nd</sup> International Symposium on Mathematical Theory of Networks and Systems, Jul 14, 2016, Minneapolis MN, US.

## Selected Outreach and Media Coverage

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- Coffee and Control, Covered in the *ECC Special* episode of the podcast (by Lucy Hodgins). 01/7/25
- Advanced Science News, *Waning immunity and COVID-19 boosters modeled in digital town*. 28/2/22
- La Stampa, *L'ingegnere di Borgomanero che studia gli algoritmi per capire la diffusione del virus*. 3/1/22
- La Stampa, *Borgomanerese dell'anno il giovane matematico Lorenzo Zino*. 24/10/21
- Curtin University Media Release, *New insights into social norms can drive positive social changes*. 1/10/21
- Science LinX, *How a committed minority can change society*. 29/9/21
- SIAM News, *Novel Mathematical Framework Explores How Opinions and Decisions Coevolve*. 22/7/21
- Advanced Science News, *Vaccinating the most vulnerable first may not have the greatest impact on COVID-19*. 27/1/21
- New York Post, *Mass COVID-19 vaccinations accomplish more than targeted vaccine roll outs*. 23/1/21
- EurekAlert!, *New COVID-19 model shows little benefit in vaccinating high-risk individuals first*. 19/1/21
- ScienceDaily, *New mathematical model shows how diversity speeds consensus*. 8/1/20
- ScienceDaily, *In small groups, people follow high-performing leaders*. 21/2/19
- Futurity, *How leaders rise from small groups*. 21/2/19
- Contagion Live, *Fighting Flu With Math: Predicting Peak Season, Spread, and Vaccination Patterns*. 18/2/19
- Infection Control Today, *NYU Researchers Fight Flu With Math*. 7/2/19
- NSF News, *Researchers find clue to epidemics in 'bursty' social behavior*. 12/12/18
- EurekAlert!, *Clue to Epidemics In Bursty Social Behavior*. 12/12/18
- SIAM News, *Can Social Interactions Affect Spread of Disease?*. 12/12/18
- La Stampa, *Il matematico torinese: stesso algoritmo per spiegare epidemie e bufale mediatiche*. 7/1/17
- La Stampa Torino, *Fronteggiare le epidemie si può, è matematico: Si diffondono con i meccanismi dei Social*. 6/12/16
- Repubblica, *Epidemie, nuovo modello del Politecnico di Torino: Si propagano come i trend topic su Twitter*. 6/12/16

## Further Professional and Scientific Activities

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**Journal Editorial Board:** IEEE Control Systems Letters (since 2026), International Journal of Control (since 2025), Scientific Reports (since 2024), Journal of Computational Science (2021–2025)

**Conference Editorial Board:** IEEE CSS (since 2023), EUCA (since 2024), ICSTCC (since 2024)

**Program Committee Member:** ComplexNetworks (since 2019); CoDIT (since 2024); CompleNet (since 2025); Automatica.it (since 2025)

**Organization of Invited Sessions:** IEEE IEEE CDC 2020, 2021, 2022, 2023, 2024, 2025; MED 2021; SIAM DS25

**Organization of Workshops:** "Complex Socio-Technical Networked Dynamics" at CDC 2024; "Socio-Inspired and Socially Aware Control for Complex Systems" at CDC 2025

**Session Chair:** MED 2021; AUTOMATICA.IT 2023, 2024; ComplexNetworks 2024; SIAM DS25; ECC 2025; CDC 2025

**Journal Reviewer:** Reviewer for more than 50 international journals

**Conference Reviewer:** Several national and international conferences, including IEEE CDC, ACC, ECC, IFAC World Congress

**Project Funding Reviewer:** Swiss National Science Foundation

**Professional Memberships:** IEEE and CSS (since 2021, Senior Member since 2024), IFAC (since 2021), SIAM (since 2025)

**Member of Funded Research Projects:** FAIR — Future Artificial Intelligence Research 2022–2026 (Team Member); PRIN Higher-order interactions in social dynamics with application to monetary networks 2023–2025 (Team Member)

**Last update:** Torino, Italy, October 31, 2025