

# Curriculum of the scientific activity of Carla Seatzu

## GENERALITIES

Name: **Carla** Surname: **Seatzu**  
Born: in Cagliari, 27<sup>th</sup> October 1971 Address: via Giardini 149, 09127 Cagliari, Italy  
Email: [carla.seatzu@unica.it](mailto:carla.seatzu@unica.it), [carla.seatzu@gmail.com](mailto:carla.seatzu@gmail.com)

## CURRENT POSITON

- **Full Professor of Automatic Control** (ING-INF/04) at the Dep. of Electrical and Electronic Engineering, University of Cagliari (since December 2019).

## PREVIOUS POSITIONS

- Jul 2000 ÷ Feb. 2002: **Post-doc student**, research project "*Identification and state reconstruction of discrete event systems modeled with Petri nets*" (supervisor: A. Giua), Dep. of Electrical and Electronic Engineering, University of Cagliari.
- Mar. 2002 ÷ Sep. 2011: **Assistant Professor** (ING-INF/04) at the Dep. of Electrical and Electronic Engineering, University of Cagliari.
- Oct. 2011 ÷ Nov. 2019: **Associate Professor** (ING-INF/04) at the Dep. of Electrical and Electronic Engineering, University of Cagliari.

## EDUCATION

- February 1996: **Master degree in Electrical Engineering** (110/110 cum laude), University of Cagliari. Thesis: "*Lyapunov transformations for the stabilization of linear time-variant systems. An application to the movement of suspended loads*" (supervisor: Prof. G. Usai, Univ. of Cagliari).
- January 2000: **Ph.D in Electronic Engineering and Computer Science**, University of Cagliari. Thesis: "*Decentralized control of open-channel hydraulic systems*" (supervisor: Prof. G. Usai, Univ. of Cagliari).

## MAIN ACTIVITIES

### Research activity

The research activity of Carla Seatzu is mainly focused on the following topics: discrete event systems, Petri nets, hybrid systems, networked control systems, transportation systems, manufacturing systems.

### Main institutional positions at the University of Cagliari

- Coordinator of the Laurea Degree in Electrical, Electronic and Computer Engineering (July 2018 – May 2022).
- Vice-Coordinator of the PhD Program in Electronic and Computer Engineering (March 2014 – January 2019).
- Vice-President of the Faculty Committee of Engineering and Architecture (November 2014 – July 2018).

### Main Editorial activity

- Senior Editor of the international journals:
  - *IEEE Control Systems Letters* (2017 – 2022),
  - *IEEE Transactions on Automation Science and Engineering* (since 2020),
  - *International Journal of Robotics Research* (since 2023).
- Department Editor of the international journal:
  - *Discrete Event Dynamic Systems* (since 2020).

- Associate Editor of the international journals:
  - *IEEE Transactions on Automatic Control* (2013 – 2019),
  - *Discrete Event Dynamic Systems* (2015 – 2020),
  - *IEEE Transactions on Automation Science and Engineering* (2014 – 2017),
  - *Nonlinear Analysis: Hybrid Systems*, Elsevier (2007 – 2016).

#### Main contributions to the organization of international scientific events

- *General Co-Chair* of the international conferences:
  - *ETFA2013: 18<sup>th</sup> IEEE Int. Conf. on Emerging Technologies in Factory Automation* (Cagliari, Italy), September 2013.
  - *CODIT2025: 11<sup>th</sup> Int. Conf. on Control, Decision and Information Technologies* (Split, Croazia), July 15-18, 2025.
- *Program Chair* of the international conference:
  - *CASE2024: 20<sup>th</sup> IEEE Int. Conf. on Automation Science and Engineering* (Bari, Italy), August 28-September 1<sup>st</sup>, 2024.
- *Program Co-Chair* of the international conference:
  - *ETFA2018: 23<sup>rd</sup> IEEE Int. Conf. on Emerging Technologies in Factory Automation* (Turin, Italy), September 2018 (with C. Mahuela, Univ. of Zaragoza, Spain).
- *Workshop Chair* of the international conferences:
  - *CDC2016: 55<sup>th</sup> IEEE Conf. on Decision and Control*, (Las Vegas, USA), December 2016;
  - *MED2021: 29<sup>th</sup> Mediterranean Control Conference*, (Bari, Italy), June 2021.
- *Chair of Work-in-Progress and Industry Practice Papers* for the international conference:
  - *ETFA'2015: 20<sup>th</sup> IEEE Int. Conf. on Emerging Technologies in Factory Automation* (Luxembourg), Settembre 2015.
- *Special Session Chair* of the international conference:
  - *CASE'2015: 11<sup>th</sup> IEEE Conf. on Automation Science and Engineering* (Gothenburg, Sweden), Agosto 2015.
- *Chair* of the National Organizing Committee of the international conferences:
  - *ADHS06: 2<sup>nd</sup> IFAC Conf. on the Analysis and Design of Hybrid Systems* (Alghero, Italy), Giugno 2006.
  - *ETFA'2013: 18<sup>th</sup> IEEE Int. Conf. on Emerging Technologies in Factory Automation* (Cagliari, Italy), Settembre 2013.
- *Member* of the Steering Committee of the following series of international conferences:
  - *ETFA: Emerging Technology in Factory Automation* (2013-2020);
  - *CASE: Conference on Automation Science and Engineering* (from 2024).
- *Senior Editor* (in Foundation of Automation) of the Editorial Board of the *IEEE Conference on Automation Science and Engineering* (from 2017).
- *Associate Editor* of the Editorial Board of the following societies:
  - *IEEE Control System Society*: for the *American Control Conference* and the *Conference on Decision and Control* (2006-2016);
  - *IEEE Robotics and Automation Society*: for the *Int. Conference on Robotics and Automation* (2011, 2015);
  - *IEEE Robotics and Automation Society*: for the *Conference on Automation Science and Engineering* (2012-2015).

#### Fellowships

- Lecturing and Research Fellowship Xidian University, Xi'an (China)- Project Grant No. 2017XZ09009 - Fault diagnosis and opacity of discrete event systems.

#### Technical Committees

- Chair of the IFAC Technical Committee 1.3 on Discrete Event and Hybrid Systems (since 2020).
- Member of the Board of Governors of the IEEE Control Systems Society (2020-21).
- Vice-chair of the IFAC Technical Committee 1.3 on Discrete Event and Hybrid Systems (2017-2020).
- Co-chair of the IEEE IES Technical Committee on Factory Automation - Subcommittee on Industrial Automated Systems and Control (since 2010).

#### Activities in research projects

##### *Coordination of international projects*

- Local coordinator of the Project “Compositional Techniques for Analysis of Safety Critical Interconnected Systems” supported by Republic of Cyprus and European Regional Development Fund within the Programme for Research, Technological Development and Innovation 2009-2010, coordinated by Prof. C. Hadjicostis, Univ. of Cyprus (2012 – 2014).

##### *Coordination of national projects*

- Project PRIN supported by the Italian Ministry of University and Research, (two years in 2023 - 2025), “Motown: Smart Production Planning and Control for Manufacturing of Electric Vehicle Powertrain in Industry 4.0 Environment”.

##### *Coordination of projects supported by Region Sardinia*

- Project of basis and fundamental research supported by Region Sardinia, (two years in 2018 - 2020), RASSR05871: “Metodi formali per il MONitoraggio di Sistemi dinamici Multi-Agente (MOSIMA)”.
- Project of basis and fundamental research supported by Region Sardinia, Regional Law 7, 2008 (2010-2012): “Identification, state reconstruction and diagnosis of discrete event systems using Petri nets”.
- POR FESR Sardinia 2014 – 2020, Line 1 Action 1.1.3, Strategy 2 “Create job opportunities encouraging the competitiveness among enterprises” (2017-2019): “UNICARASAU: Optimization of the production process of Carasau bread for the improvement of the automation level and the plant productivity”.
- Project of fundamental research or basis research supported by Region Sardinia, 2017 (2019-2020): “Formal methods for the monitoring of multi-agent dynamical systems”.

##### *Participation to European research projects and networks of excellence*

- 2004: HYCON “Hybrid Control: Taming Heterogeneity and Complexity of Networked Embedded Systems”, VI programma quadro (member of the unity of Siena in the European network of excellence).
- 2008÷2011: EUROPEAN PROJECT “Distributed Supervisory Control of Large Plants – DISC” (FP7 - ICT 2007-2), (Coordinator A. Giua, Univ. of Cagliari).
- 2010÷2012: Network of Excellence HYCON2 “Highly-complex and networked control systems” (FP7 – ICT 2009-5), (Coordinator F. Lamnabhi-Lagarrigue, Lab. Des Signaux et Systemes L2S, CNRS, Paris, France).

#### Visits to foreign universities and research centres

- January 1998: *Visiting student* at CEMAGREF, Institut de Recherche pour l’Ingegnerie de l’Agriculture et de l’environnement, Montpellier, France.
- December 2004, October 2006, February 2008: *Visiting researcher* at the Dep.to Informática e Engenharia de Sistemas, Centro Politécnico Superior, Zaragoza, Spain.
- October 2006: *Visiting Professor* at the Aalborg University, Department of Software and Media Technology, Esbjerg, Denmark.

- January 2013, January 2015, January 2017: *Visiting Professor* at the School of Electrical and Computer Engineering, Georgia Institute of Technology, Atlanta, USA.
- Febbraio 2013: *Visiting Professor* at CINVENSTAV, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Guadalajara, Mexico.
- October 2014: *Visiting Professor* at the University of Cyprus, Nicosia, Cyprus.
- August 2017: *Visiting Professor* at the Zhejiang Gongshang University, Hangzhou, China.
- June, November 2017: *Visiting Professor* at the Xidian University, Xi'an, China.

*Plenary Speaker in international conferences:*

- *8th Int. Workshop on Verification and Evaluation of Computer and Communication Systems*, Bejaia, Algeria, September 2014), Title: “Fault diagnosis of discrete event systems using Petri nets”.
- *21th Int. Conference on System Theory, Control and Computing*, (Sinaia, Romania, October 20, 2017), Title: “Verification of opacity in discrete event systems”.
- *14th Workshop on Discrete Event Systems*, (Sorrento Coast, Italy, June 1, 2018), Title: “Partially observed discrete-event systems: from state estimation to intrusion detection”.
- *2th IEEE Int. Conf. on Emerging Technology and Factory Automation* (Zaragoza, Spain, September 2019), Title: “Modeling, analysis and intelligent control of automated manufacturing systems using Petri nets”.
- *15th International Conference on Computer and Automation Engineering* (Sidney, Australia, March 3-5, 2023), Title: “Partially observed discrete-event systems: state of the art and open issues”.
- *9th International Conference on Control, Decision and Information Technologies* (Rome, Italy, July 3-6, 2023), Title: “State estimation and event inference in discrete event systems”.

***Bibliometric indices (April 8<sup>th</sup>, 2025)***

- Papers on Scopus: 294
- Number of citations on Scopus: 6075
- Number of citations on Google Scholar: 8556
- H index on Scopus: 40
- H index on Google Scholar: 49

## **MAIN PUBLICATIONS**

### **Books**

- [B1] A. Giua, C. Seatzu, *Analisi dei Sistemi Dinamici*, Springer-Verlag Italia (in Italian);  
First edition: 2006, ISBS-10 8847002842, ISBN-13: 978-8847002845;  
Second edition: 2009, ISBN-10: 8847014832, ISBN-13: 978-8847014831.
- [B2] C. Seatzu, M. Silva, J.H. van Schuppen (Eds), *Control of Discrete-Event Systems. Automata and Petri Net Perspectives*, in Lecture Notes in Control and Information Science, Springer, Vol. 433, 2013.  
ISSN 0170-8643, ISBN 978-1- 4471- 4275-1.
- [B3] J. Campos, C. Seatzu, X. Xie (Eds), *Formal Methods in Manufacturing*, CRC Press, Taylor & Francis Group, 2014.  
ISBN-13 978-1466561557.

### **Proceedings of international conferences**

- [P1] C.G. Cassandras, A. Giua, C. Seatzu, J. Zaytoon (Eds), *Analysis and Design of Hybrid Systems 2006*, in IFAC Proceedings Volumes, Elsevier, 2006.  
ISBN-13 978-0-08-044613-4, ISBN-10 0-08-044613-2.
- [P2] C. Seatzu (Ed), *Proceedings 18th IEEE Conf. on Emerging Technologies and Factory Automation*, 2013.  
ISBN: 978-1-4799-0864-6.

### **Editorials of special issues or sessions in international conferences**

- [E1] C.G. Cassandras, A. Giua, C. Seatzu, J. Zaytoon, “DEDS Special Issue on Discrete Event Methodologies for Hybrid Systems”, *Discrete Event Dynamic Systems*, Vol. 18, N. 2, pp. 161-162, June 2008.  
DOI: 10.1007/s10626-008-0043-6, ISSN: 0924-6703
- [E2] C.G. Cassandras, A. Giua, C. Seatzu, J. Zaytoon, “Editorial Special Issue on Analysis and Design of Hybrid Systems”, *Nonlinear Analysis: Hybrid Systems*, Vol. 2, N. 3, pp. 695-696, August 2008.  
DOI: 10.1016/j.nahs.2007.11.002, ISSN: 1751-570X
- [E3] C.G. Cassandras, A. Giua, C. Seatzu, J. Zaytoon, “Preface Special Section: IFAC Conference on Analysis and Design of Hybrid Systems”, *Control Engineering Practice*, Vol. 16, N. 8, pp. 959-960, August 2008.  
DOI: 10.1016/j.conengprac.2011.10.012, ISSN: 0967-0661
- [E4] C.G. Cassandras, M.P. Fanti, C.N. Hadjicostis, S. Reveliotis, C. Seatzu, “Guest Editorial: Special Issue on Advances in Discrete Event Systems for Automation”, *IEEE Trans. on Automation Science and Engineering*, Vol. 11, No. 1, pp. 3-5, January 2014.  
DOI: 10.1109/TASE.2013.2293003, ISSN: 1545-5955

### **Papers on international journals**

- [R1] A. Giua, C. Seatzu, G. Usai, “Observer-controller design for cranes via Lyapunov equivalence”, *Automatica*, Vol. 35, N. 4, pp. 669-678, April 1999 (*Brief Paper*).  
DOI: 10.1016/S0005-1098(98)00204-0, ISSN: 0005-1098
- [R2] C. Seatzu, “Design and robustness analysis of decentralized constant volume-control for open channels”, *Applied Mathematical Modelling*, Vol. 23, N. 6, pp. 479-500, June 1999.  
DOI: 10.1016/S0307-904X(98)10094-X, ISSN: 0307-904X
- [R3] A. Giua, C. Seatzu, G. Usai, “Semiactive suspension design with an optimal gain switching target”, *Vehicle System Dynamics*, Vol. 31, N. 4, pp. 213-232, April 1999.  
DOI: 10.1076/vesd.31.4.213.4233, ISSN: 0042-3114
- [R4] C. Seatzu, “Design of decentralized constant-volume controllers for open-channels by solving a least squares problem”, *Int. J. of Systems Science*, Vol. 31, N. 6, pp.759-770, June 2000.  
DOI: 10.1080/00207720050030806, ISSN: 0020-7721
- [R5] C. Seatzu, “A fitting based method for parameter estimation in S-Systems”, *Dynamic Systems and Applications*, Vol. 9, N. 1, pp. 77-98, March 2000.

- [R6] C. Seatzu, "Decentralized controllers design for open-channel hydraulic systems via eigenstructure assignment", *Applied Mathematical Modelling*, Vol. 24, N. 12, pp. 915-930, December 2000.  
DOI: 10.1016/S0307-904X(00)00025-1, ISSN: 0307-904X
- [R7] A. Giua, C. Seatzu, G. Usai, "A mixed suspension system for a half-car vehicle model", *Dynamics and Control*, Vol. 10, N. 4, pp. 375-397, December 2000.  
DOI: 10.1023/A:1011225717339, ISSN: 09254668
- [R8] F. Balduzzi, A. Di Febbraro, A. Giua, C. Seatzu, "Decidability results in First-Order Hybrid Petri Nets", *Discrete Event Dynamic Systems*, Special Issue on *Hybrid Petri Nets*, Vol. 11, N. 1 & 2, pp. 41-58, January 2001.  
DOI: 10.1023/A:1008383031624, ISSN: 0924-6703
- [R9] F. Balduzzi, A. Giua, C. Seatzu, "Modelling and simulation of manufacturing systems with First-Order Hybrid Petri Nets", *Int. J. of Production Research*, Special Issue on *Modeling, Specification and Analysis of Manufacturing Systems*, Vol. 39, N. 2, pp. 255-282, 2001.  
DOI: 10.1080/00207540010004278, ISSN: 0020-7543
- [R10] A. Giua, R. Furfas, A. Piccaluga, C. Seatzu, "Hybrid Petri net modeling of inventory management systems", *European Journal of Automation, APII\_JESA*, Special Issue on *Hybrid Dynamical Systems*, Vol. 35, N. 4, pp. 417-434, May 2001.  
ISSN: 12696935
- [R11] A. Giua, M. Sanna, C. Seatzu, "Observer-controller design for three dimensional overhead cranes using time-scaling", *Mathematical and Computer Modelling of Dynamical Systems*, Vol. 7, N. 1, pp. 77-107, March 2001.  
DOI: 10.1076/mcmd.7.1.77.3634
- [R12] A. Giua, A. Piccaluga, C. Seatzu, "Firing rate optimization of cyclic timed event graphs by token allocations", *Automatica*, Vol. 38, N. 1, pp. 91-103, January 2002 (Regular Paper).  
DOI: 10.1016/S0005-1098(01)00189-3, ISSN: 0005-1098
- [R13] A. Giua, C. Seatzu, "Observability of Place/Transition nets", *IEEE Trans. on Automatic Control*, Vol. 47, N. 9, pp. 1424 - 1437, September 2002 (Regular Paper).  
DOI: 10.1109/TAC.2002.802769, ISSN: 0018-9286
- [R14] C. Seatzu, G. Usai, "A decentralized volume variations observer for open-channels", *Applied Mathematical Modelling*, Vol. 26, N. 10, pp. 975 - 1001, October 2002.  
DOI: 10.1016/S0307-904X(02)00055-0, ISSN: 0307-904X
- [R15] A. Giua, C. Seatzu, F. Basile, "Observer-based state-feedback control of timed Petri nets with deadlock recovery", *IEEE Trans. on Automatic Control*, Vol. 49, N. 1, pp. 17-29, January 2004 (Regular Paper).  
DOI: 10.1109/TAC.2003.821419, ISSN: 0018-9286
- [R16] A. Giua, M. Melas, C. Seatzu, G. Usai, "Design of a predictive semiactive suspension system", *Vehicle System Dynamics*, Vol. 41, N. 4, pp. 277-300, April 2004.  
DOI: 10.1080/00423110412331315169, ISSN: 0042-3114
- [R17] A. Giua, J. Júlvez, C. Seatzu, "Marking estimation of Petri nets with pairs of nondeterministic transitions", *Asian Journal of Control*, Special Issue on *Control of Discrete Event Systems*, Vol. 6, N. 2, pp. 270-280, June 2004.  
DOI: 10.1111/j.1934-6093.2004.tb00204.x, ISSN: 1561-8625
- [R18] D. Corona, A. Giua, C. Seatzu, "Optimal control of hybrid automata: an application to the design of semiactive suspension", *Control Engineering Practice*, Special Issue on *Hybrid Dynamic Systems*, Vol. 12, N. 10, pp. 1305-1318, October 2004.  
DOI: 10.1016/j.conengprac.2004.03.014, ISSN: 0967-0661
- [R19] A. Giua, M.T. Pilloni, C. Seatzu, "Modelling and simulation of a bottling plant using hybrid Petri nets", *Int. J. of Production Research*, Vol. 43, N. 7, pp. 1375-1395, April 2005.  
DOI: 10.1080/00207540412331299602, ISSN: 0020-7543
- [R20] A. Giua, D. Corona, C. Seatzu, "State estimation of  $\lambda$ -free labeled Petri nets with contact-free nondeterministic transitions", *Discrete Event Dynamic Systems*, Vol. 15, N. 1, pp. 85-108, January 2005.  
DOI: 10.1007/s10626-005-5239-4, ISSN: 0924-6703
- [R21] C. Seatzu, D. Corona, A. Giua, A. Bemporad, "Optimal control of continuous-time switched affine systems", *IEEE Trans. on Automatic Control*, Vol. 51, N. 5, pp. 726-741, May 2006 (Regular Paper).  
DOI: 10.1109/TAC.2006.875053, ISSN: 0018-9286
- [R22] A. Giua, M.P. Fanti, C. Seatzu, "Monitor design for colored Petri nets: an application to deadlock prevention in railway networks", *Control Engineering Practice*, Vol. 14, N. 10, pp. 1231-1247, October 2006.  
DOI: 10.1016/j.conengprac.2006.02.007, ISSN: 0967-0661

- [R23] C. Seatzu, "Discrete, Continuous, and Hybrid Petri Nets. R. David, H. Alla. Springer-Verlag Berlin Heidelberg 2005", Book review, *Int. J. of Robust and Nonlinear Control*, Vol. 15, N. 14, pp. 637-640, September 2005.  
DOI: 10.1002/rnc.1029, ISSN: 1049-8923
- [R24] C. Seatzu, D. Gromov, J. Raisch, D. Corona, A. Giua, "Optimal control of discrete-time hybrid automata under safety and liveness constraints", *Nonlinear Analysis: Theory, Methods and Applications*, Elsevier, Vol. 65, N. 6, Special Issue *Hybrid Systems and Applications* (5), pp. 1188-1210, September 2006.  
DOI: 10.1016/j.na.2005.12.024, ISSN: 0362-546X
- [R25] D. Corona, A. Giua, C. Seatzu, "Marking estimation of Petri nets with silent transitions", *IEEE Trans. on Automatic Control*, Vol. 52, N. 9, pp. 1695-1699, September 2007 (Technical Note).  
DOI: 10.1109/TAC.2007.904281, ISSN: 0018-9286
- [R26] M.P. Cabasino, A. Giua, C. Seatzu, "Identification of Petri nets from knowledge of their language", *Discrete Event Dynamic Systems*, Vol. 17, N. 4, pp. 447-474, December 2007.  
DOI: 10.1007/s10626-007-0025-0, ISSN: 0924-6703
- [R27] M. Dotoli, M.P. Fanti, A. Giua, C. Seatzu, "First-Order Hybrid Petri nets. An application to distributed manufacturing systems", *Nonlinear Analysis: Hybrid Systems*, Elsevier, Vol. 2, N. 2, pp. 408-430, June 2008.  
DOI: 10.1016/j.nahs.2006.05.005, ISSN: 1751-570X
- [R28] A. Giua, C. Seatzu, "Modeling and supervisory control of railway networks using Petri nets", *IEEE Trans. on Automation Science and Engineering*, Vol. 5, N. 3, pp. 431-445, July 2008 (Regular Paper).  
DOI: 10.1109/TASE.2008.916925, ISSN: 1545-5955
- [R29] C. Mahulea, A. Giua, L. Recalde, C. Seatzu, M. Silva, "Optimal model predictive control of timed Continuous Petri nets", *IEEE Trans. on Automatic Control*, Vol. 53, N. 7, pp. 1731-1735, August 2008, (Technical Note).  
DOI: 10.1109/TAC.2008.929386, ISSN: 0018-9286
- [R30] A. Giua, T. Paschedag, C. Seatzu, "Constrained optimal control: an application to semiactive suspension", *Int. J. of Systems Science*, Vol. 41, N. 7, pp. 797-811, July 2010.  
DOI: 10.1080/00207720903366023, ISSN: 0020-7721
- [R31] M. Franceschelli, A. Giua, C. Seatzu, "A gossip-based algorithm for discrete consensus over heterogeneous networks", *IEEE Trans. on Automatic Control*, Vol. 55, N. 5, pp. 1244-1249, May 2010 (Technical Note).  
DOI: 10.1109/TAC.2010.2042360, ISSN: 0018-9286
- [R32] M.P. Cabasino, A. Giua, C. Seatzu, "Fault detection for discrete event systems using Petri nets with unobservable transitions", *Automatica*, Vol. 46, N. 9, pp. 1531-1539, September 2010 (Brief Paper).  
DOI: 10.1016/j.automatica.2010.06.013, ISSN: 0005-1098
- [R33] M. Franceschelli, A. Giua, C. Seatzu, "Distributed Averaging in Sensor Networks Based on Broadcast Gossip Algorithms", *IEEE Sensors Journal*, Vol. 11, N. 3, pp. 808-817, March 2011 (Regular Paper).  
DOI: 10.1109/JSEN.2010.2064295, ISSN: 1530-437X
- [R34] M.P. Cabasino, A. Giua, M. Pocci, C. Seatzu, "Discrete event diagnosis using labeled Petri nets. An application to manufacturing systems", *Control Engineering Practice*, Vol. 19, N. 9, pp. 989-1001, September 2011.  
DOI: 10.1016/j.conengprac.2010.12.010, ISSN: 0967-0661
- [R35] M. Franceschelli, A. Giua, C. Seatzu, "Quantized consensus in Hamiltonian graphs", *Automatica*, Vol. 47, N. 11, pp. 2495-2503, November 2011 (Brief Paper).  
DOI: 10.1016/j.automatica.2011.08.032, ISSN: 0005-1098
- [R36] M.P. Cabasino, C. Mahulea, C. Seatzu, M. Silva, "Fault Diagnosis of Discrete-Event Systems using Continuous Petri Nets", *IEEE Trans. on Systems, Man and Cybernetics – Part A*, Vol. 42, N. 4, pp. 970-984, July 2012 (Regular Paper).  
DOI: 10.1109/TSMCA.2012.2183358, ISSN: 1083-4427
- [R37] M.P. Cabasino, A. Giua, S. Lafortune, C. Seatzu, "A new approach for diagnosability analysis of Petri nets using Verifier Nets", *IEEE Trans. on Automatic Control*, Vol. 57, N. 12, pp. 3104-3117, December 2012, (Regular Paper).  
DOI: 10.1109/TAC.2012.2200372, ISSN: 0018-9286
- [R38] M.P. Cabasino, A. Giua, C. Seatzu, "Diagnosis using labeled Petri nets with silent or undistinguishable fault events", *IEEE Trans. on Systems, Man and Cybernetics – Systems*, Vol. 43, N. 2, pp. 345-355, March 2013 (Regular Paper).  
DOI: 10.1109/TSMCA.2012.2199307, ISSN: 2168-2216
- [R39] M. Franceschelli, A. Gasparri, A. Giua, C. Seatzu, "Decentralized estimation of Laplacian eigenvalues in multi-agent systems", *Automatica*, Vol. 49, N. 4, pp. 1031-1036, April 2013 (Brief Paper).  
DOI: 10.1016/j.automatica.2013.01.029, ISSN: 0005-1098

- [R40] Y. Wardi, A. Giua, C. Seatzu, “IPA for continuous stochastic marked graphs”, *Automatica*, Vol. 49, N. 5, pp. 1204-1215, May 2013 (Regular Paper).  
DOI: 10.1016/j.automatica.2013.02.006, ISSN: 0005-1098
- [R41] M.P. Cabasino, S. Lafortune, C. Seatzu, “Optimal sensor selection for ensuring diagnosability in labeled bounded Petri nets”, *Automatica*, Vol. 49, N. 8, pp. 2373-2383, August 2013 (Regular Paper).  
DOI: 10.1016/j.automatica.2013.04.041, ISSN: 0005-1098
- [R42] M. Franceschelli, D. Rosa, C. Seatzu, F. Bullo, “Gossip algorithms for heterogeneous multi-vehicle routing problems”, *Nonlinear Analysis: Hybrid Systems*, Vol. 10, N. 1, pp. 156-174, November 2013.  
DOI: 10.1016/j.nahs.2013.03.001, ISSN: 1751-570X
- [R43] M.P. Cabasino, A. Giua, A. Paoli, C. Seatzu, “Decentralized diagnosis of discrete event systems using labeled Petri nets”, *IEEE. Trans. on Systems, Man and Cybernetics – Systems*, Vol. 43, N. 6, pp. 1477-1485, November 2013 (Technical Note).  
DOI: 10.1109/TSMC.2013.2244208, ISSN: 2168-2216
- [R44] D. Corona, A. Giua, C. Seatzu, “Stabilization of switched systems via optimal control”, *Nonlinear Analysis: Hybrid Systems*, Vol. 11, N. 1, pp. 1-10, January 2014.  
DOI: 10.1016/j.nahs.2013.02.002, ISSN: 1751-570X
- [R45] M.P. Cabasino, A. Giua, C. Seatzu, “Diagnosability of discrete event systems using labeled Petri nets”, *IEEE Trans. on Automation Science and Engineering*, Vol. 11, N. 1, pp. 144-153, January 2014 (Brief Paper).  
DOI: 10.1109/TASE.2013.2289360, ISSN: 1545-5955
- [R46] M.P. Cabasino, A. Giua, A. Paoli, C. Seatzu, “A remark on decentralized diagnosis of labeled Petri nets”, *IEEE. Trans. on Systems, Man and Cybernetics – Systems*, Vol. 44, N. 11, pp. 1549, November 2014.  
DOI: 10.1109/TSMC.2014.2328604, ISSN: 10834427
- [R47] A. Giua, C. Seatzu, “Petrinetze und die stuerung ereignisdiskreter systeme (Petri nets for the control of discrete event systems)”, *Informatik-Spektrum*, Vol. 37, N. 3, pp. 199-210, June 2014 (versione tedesca di [53]).  
DOI: 10.1007/s00287-014-0766-8, ISSN: 0170-6012
- [R48] M.P. Cabasino, A. Giua, C.N. Hadjicostis, C. Seatzu, “Fault model identification and synthesis in Petri nets”, *Discrete Event Dynamic Systems*, Vol. 25, N. 3, pp. 419-440, September 2015.  
DOI: 10.1007/s10626-014-0190-x, ISSN: 0924-6703
- [R49] A. Giua, C. Seatzu, “Petri nets for the control of discrete event systems”, *Software and Systems Modeling*, Vol. 14, N. 2, pp. 693-701, May 2015 (English version of [51]).  
DOI: 10.1007/s10270-014-0425-1, ISSN: 1619-1366
- [R50] M. Franceschelli, A. Giua, C. Seatzu, “Fast discrete consensus based on gossip for makespan minimization in networked systems”, *Automatica*, Vol. 56, N. 1, pp. 60-69, June 2015, (Regular Paper).  
DOI: 10.1016/j.automatica.2015.02.040, ISSN: 0005-1098
- [R51] F. Basile, M.P. Cabasino, C. Seatzu, “State estimation and fault diagnosis of labeled time Petri net systems with unobservable transitions”, *IEEE Trans. on Automatic Control*, Vol. 60, N. 4, pp. 997-1009, April 2015 (Regular Paper).  
DOI: 10.1109/TAC.2014.2363916, ISSN: 0018-9286
- [R52] M.P. Cabasino, C.N. Hadjicostis, C. Seatzu, “Probabilistic marking estimation in labeled Petri nets”, *IEEE Trans. on Automatic Control*, Vol. 60, N. 2, pp. 528-533, February 2015 (Technical Note).  
DOI: 10.1109/TAC.2014.2343373, ISSN: 0018-9286
- [R53] S. Wang, D. You, M.C. Zhou, C. Seatzu, “Characterization of admissible marking sets in Petri nets with uncontrollable transitions”, *IEEE Trans. on Automatic Control*, Vol. 61, N. 7, pp. 1953-1958, July 2016 (Technical Note).  
DOI: 10.1109/TAC.2015.2480233, ISSN: 0018-9286
- [R54] G. Cavone, M. Dotoli, C. Seatzu, “Management of intermodal freight terminals by First Order Hybrid Petri Nets”, *IEEE Robotics and Automation Letters*, Vol. 1, N. 1, pp. 2-9, January 2016.  
DOI: 10.1109/LRA.2015.2502905, ISSN: 2377-3766
- [R55] Y. Wardi, C. Seatzu, X. Chen, S. Yalamanchili, “Performance regulation of event-driven dynamical systems using infinitesimal analysis”, *Nonlinear Analysis: Hybrid Systems*, Vol. 22, pp. 116-136, November 2016.  
DOI: 10.1016/j.nahs.2016.03.007, ISSN: 1751-570X
- [R56] M. Dotoli, A. Fay, M. Miskowicz, C. Seatzu, “Advanced control in factory automation: a survey”, *Int. J. of Production Research*, Vol. 55, N. 5, pp. 1243-1259, March 2017.  
DOI: 10.1080/00207543.2016.1173259, ISSN: 0020-7543



- [R57] M. Dotoli, N. Epicoco, M. Falagario, C. Seatzu, B. Turchiano, "A decision support system for optimizing operations at intermodal inland", *IEEE Trans. on Systems, Man and Cybernetics – Systems*, Vol. 47, N. 3, pp. 487-501, March 2017 (Regular Paper).  
DOI: 10.1109/TSMC.2015.2506540, ISSN: 2168-2216
- [R58] F. Basile, M.P. Cabasino, C. Seatzu, "Diagnosability analysis of labeled Time Petri net systems", *IEEE Trans. on Automatic Control*, Vol. 62, N. 3, pp. 1384-1396, March 2017 (Regular Paper).  
DOI: 10.1109/TAC.2016.2588736, ISSN: 0018-9286
- [R59] M.P. Cabasino, C.N. Hadjicostis, C. Seatzu, "Marking observer in labeled Petri nets with application to supervisory control", *IEEE Trans. on Automatic Control*, Vol. 62, N. 4, pp. 1813-1824, April 2017 (Regular Paper).  
DOI: 10.1109/TAC.2016.2592952, ISSN: 0018-9286
- [R60] Y. Tong, Z. Li, C. Seatzu, A. Giua, "Decidability of opacity problems in labeled Petri net systems", *Automatica*, Vol. 80, pp. 48-53, June 2017 (Brief Paper).  
DOI: 10.1016/j.automatica.2017.01.013, ISSN: 0005-1098
- [R61] Y. Tong, Z. Li, C. Seatzu, A. Giua, "Verification of state-based opacity using Petri nets", *IEEE Trans. on Automatic Control*, Vol. 62, N. 6, pp. 2823-2837, June 2017 (Regular Paper).  
DOI: 10.1109/TAC.2016.2620429, ISSN: 0018-9286
- [R62] Y. Wardi, C. Seatzu, "Performance regulation in discrete event and hybrid dynamical systems using IPA", *European Journal of Control*, Vol. 36, pp. 51-61, 2017.  
DOI: 10.1016/j.ejcon.2017.02.004, ISSN: 0947-3580
- [R63] M. Franceschelli, A. Giua, C. Seatzu, "Gossip based asynchronous and randomized distributed task assignment with guaranteed performance on heterogeneous networks", *Nonlinear Analysis: Hybrid Systems*, Vol. 26, pp. 292-306, November 2017.  
DOI: 10.1016/j.nahs.2017.06.008, ISSN: 1751-570X
- [R64] G. Cavone, M. Dotoli, N. Epicoco, C. Seatzu, "A decision making procedure for robust train rescheduling based on mixed integer linear programming and Data Envelopment Analysis", *Applied Mathematical Modeling*, Vol. 52, pp. 255-273, December 2017.  
DOI: 10.1016/j.apm.2017.07.030, ISSN: 0307-904X
- [R65] A. Giua, C. Mahulea, C. Seatzu, "Decentralized observability of discrete event systems with synchronization", *Automatica*, Vol. 85, pp. 468-476, 2017 (Regular Paper).  
DOI: 10.1016/j.automatica.2017.08.009, ISSN: 0005-1098
- [R66] G. Cavone, M. Dotoli, N. Epicoco, C. Seatzu, "Intermodal planning by Petri nets and Data Envelopment Analysis", *Control Engineering Practice*, Vol. 69, pp. 9-22, December 2017.  
DOI: 10.1016/j.conengprac.2017.08.007, ISSN: 0967-0661
- [R67] G. Cavone, M. Dotoli, C. Seatzu, "A survey on Petri net models for freight logistics and transportation systems", *IEEE Trans. on Intelligent Transportation Systems*, Vol. 19, N. 6, pp. 1795-1813, June 2018 (Regular Paper).  
DOI: 10.1109/TITS.2017.2737788, ISSN: 1524-9050
- [R68] S. Zanda, P. Zuddas, C. Seatzu, "Long term nurse scheduling via a decision support system based on linear integer programming: A case study at the University Hospital in Cagliari", *Computers and Industrial Engineering*, Vol. 126, pp. 337-347, December 2018.  
DOI: 10.1016/j.cie.2018.09.027, ISSN: 0360-8352
- [R69] S. Wang, Y. Dan, C. Seatzu, "A novel approach for constraint transformation in Petri nets with uncontrollable transitions", *IEEE Trans. on Systems, Man, and Cybernetics - Systems*, Vol. 48, N. 8, pp. 1403-1410, August 2018 (Regular Paper).  
DOI: 10.1109/TSMC.2017.2665479, ISSN: 2168-2216
- [R70] N. Ran, H. Su, A. Giua, C. Seatzu, "Codiagnosability analysis of bounded Petri nets", *IEEE Trans. on Automatic Control*, Vol. 63, N. 4, pp. 1192-1199, April 2018 (Technical Note).  
DOI: 10.1109/TAC.2018.2874020, ISSN: 0018-9286
- [R71] Y. Tong, C. Seatzu, Z. Li, A. Giua, "Current state opacity enforcement in discrete event systems under incomparable observation", *Discrete Event Dynamic Systems*, Vol. 28, N. 2, pp. 161-182, June 2018.  
DOI: 10.1007/s10626-017-0264-7, ISSN: 0924-6703
- [R72] M. Dotoli, A. Fay, M. Miskowicz, C. Seatzu, "An overview of current technologies and emerging trends in factory automation", *Int. J. of Production Research*, Vol 57, N. 15-16, pp. 5047-5067, 2019.  
DOI: 10.1080/00207543.2018.1510558, ISSN: 0020-7543
- [R73] Y. Dan, S. Wang, C. Seatzu, "Supervisory control of a class of Petri nets with unobservable and uncontrollable transitions", *Information Science*, Vol. 501, pp. 635-654, October 2019.  
DOI: 10.1016/j.ins.2018.10.018, ISSN: 0020-0255

- [R74] N. Ran, A. Giua, C. Seatzu, “Enforcement of diagnosability in labeled Petri nets via optimal sensor selection”, *IEEE Trans. on Automatic Control*, Vol. 64, N. 7, pp. 2997-3004, Luglio 2019 ([Technical Note](#)).  
DOI: 10.1109/TAC.2018.2874020, ISSN: 0018-9286
- [R75] Y. Dan, S. Wang, C. Seatzu, “Verification of fault-predictability in labeled Petri nets using Prediction Graphs”, *IEEE Trans. on Automatic Control*, Vol. 64, N. 10, pp. 4353-4360, October 2019 ([Technical Note](#)).  
DOI: 10.1109/TAC.2019.2897272, ISSN: 0018-9286
- [R76] Z. He, Z. Li, A. Giua, F. Basile, C. Seatzu, “Some remarks on “State estimation and fault diagnosis of Time Labeled Petri Net Systems with unobservable transitions”, *IEEE Trans. on Automatic Control*, Vol. 64, N. 12, pp. 5253-5259, December 2019 ([Technical Note](#)).  
DOI: 10.1109/TAC.2019.2910168, ISSN: 0018-9286
- [R77] A. Giua, S. Lafortune, C. Seatzu, “Divergence properties of labeled Petri nets and their relevance for diagnosability”, *IEEE Trans. on Automatic Control*, Vol. 65, N. 7, pp. 3092-3097, July 2020 ([Technical Note](#)).  
DOI: 10.1109/TAC.2019.2947650, ISSN: 0018-9286
- [R78] G. Cavone, M. Dotoli, N. Epicoco, D. Morelli, C. Seatzu, “Design of modern supply chain networks using fuzzy bargaining game and data envelopment analysis”, *IEEE Trans. on Automation Science and Engineering*, Vol. 17, N. 3, pp. 1221-1236, July 2020 ([Regular Paper](#)).  
DOI: 10.1109/TASE.2020.2977452
- [R79] H. Lan, Y. Tong, J. Guo, C. Seatzu, “Verification of C-detectability using Petri nets”, *Information Science*, Vol. 528, pp. 294-310, August 2020.  
DOI: 10.1016/j.ins.2020.04.024
- [R80] G. Cavone, T. van den Boom, L. Blenkers, M. Dotoli, C. Seatzu, B. De Schutter, “An MPC-based rescheduling for disruptions and disturbances in large-scale railway networks”, *IEEE Trans. on Automation Science and Engineering*, pp. 1-14, December 2020 ([Regular Paper](#)).  
DOI: 10.1109/TASE.2020.3040940
- [R81] H. Lan, Y. Tong, C. Seatzu, “Analysis of strong and strong periodic detectability of bounded labeled Petri nets”, *Nonlinear Analysis: Hybrid Systems*, Vol. 42, November 2021.  
10.1016/j.nahs.2021.101087
- [R82] Q. Zhang, C. Seatzu, Z. Li, A. Giua, “Joint state estimation under attack of discrete event systems”, *IEEE Access*, pp. 168068–168079, Vol. 9, 2021.  
10.1109/ACCESS.2021.3135870
- [R83] N. Ran, J. Hao, C. Seatzu, “Prognosability analysis and enforcement of bounded labeled Petri nets”, *IEEE Trans. on Automatic Control*, Vol. 60, N. 10, pp. 5541-5547, October 2022.  
10.1109/TAC.2021.3118655
- [R84] D. You, S. Wang, M. Zhou, C. Seatzu, “Supervisory control of Petri nets in the presence of replacement attacks”, *IEEE Trans. on Automatic Control*, pp. 1466-1473, March 2022 ([Technical Note](#)).  
DOI: 10.1109/TAC.2021.3063699
- [R85] D. You, S. Wang, C. Seatzu, “A liveness-enforcing supervisor tolerant to sensor-reading modification attacks”, *IEEE Trans. on Systems, Man, and Cybernetics: Systems*, pp. 1-14, Vol. 52, pp. 2398-2411, April 2022 ([Regular Paper](#)).  
DOI: 10.1109/TSMC.2021.3051096
- [R86] D. Lefebvre, C. Seatzu, C. Hadjicostis, A. Giua, “Probabilistic state estimation for labeled continuous time Markov models with applications to attack detection”, *Discrete Event Dynamic Systems: Theory and Applications*, Vol. 32, pp. 65-88, January 2022.  
10.1007/s10626-021-00348-y
- [R87] G. Cavone, T. Van Den Boom, L. Blenkers, M. Dotoli, C. Seatzu, B. De Schutter, “An MPC-based rescheduling algorithm for disruptions and disturbances in large-scale railway networks”, *IEEE Trans. on Automation Science and Engineering*, Vol. 19, pp. 99-112, January 2022.  
10.1109/TASE.2020.3040940
- [R88] H. Lan, Y. Tong, C. Seatzu, “Crucial states estimation in radio block center handover using Petri nets with unobservable transitions”, *IEEE Trans. on Automation Science and Engineering*, Vol. 19, pp. 1268-1276, February 2022.  
10.1109/TASE.2021.3133910
- [R89] Y. Tong, H. Lan, C. Seatzu, “Verification of K-step and infinite-step opacity of bounded labeled Petri nets”, *Automatica*, Vol. 160, June 2022.  
10.1016/j.automatica.2022.110221
- [R90] K. Cai, A. Giua, C. Seatzu, “Consistent reduction in discrete-event systems”, *Automatica*, vol. 142, 2022.

- 10.1016/j.automatica.2022.110333
- [R91] Q. Zhang, C. Seatzu, Z. Li, A. Giua, “Selection of a stealthy and harmful attack function in discrete event systems”, *Scientific Report*, 12(1), 16302, September 2022.  
10.1038/s41598-022-19737-w
- [R92] D. Lefebvre, C. Seatzu, C. Hadjicostis, A. Giua, “Correction to: Probabilistic state estimation for labeled continuous time Markov models with applications to attack detection”, *Discrete Event Dynamic Systems: Theory and Applications*, 2022.  
10.1007/s10626-022-00364-6
- [R93] Z.A.Z.S. Dashti, G. Oliva, C. Seatzu, A. Gasparri, M. Franceschelli, “Distributed Mode Computation in Open Multi-Agent Systems”, *IEEE Control Systems Letters*, Vol. 6, pp. 3481 – 3486, 2022.  
10.1109/LCSYS.2022.3185419
- [R94] N. Ran, T. Li, Z. He, C. Seatzu, “Codiagnosability Enforcement in Labeled Petri Nets”, *IEEE Trans. on Automatic Control*, Vol. 68, pp. 2436-2443, April 2023 ([Technical Note](#)).  
10.1109/TAC.2022.3173170
- [R95] M. Ungaretti Borges, A. Pilloni, G. Ribeiro Pontes, C. Seatzu, E José Lima II, “Signal-Interpreted colored Petri nets: a modelling tool for rapid prototyping in feedback-based control of discrete event systems”, *Control Engineering Practice*, Vol. 153, 2024.  
10.1016/j.conengprac.2024.106099
- [R96] Z. Ma, Y. Tong, C. Seatzu, “Verification of pattern-pattern diagnosability in partially observed discrete event systems”, *IEEE Trans. on Automatic Control*, Vol. 69, pp. 2044–2051, March 2024 ([Technical Note](#)).  
10.1109/TAC.2023.3319154
- [R97] Y. Wardi, C. Seatzu, J. Cortés, M. Egerstedt, S. Shivam, I. Buckley, “Tracking control by Newton-Raphson method with output prediction and controller speedup”, *International Journal of Robust and Nonlinear Control*, 2023.  
10.1109/TAC.2022.3173170
- [R98] K. Peng, Y. Chen, C. Seatzu, Z. Li, A. Giua, “Concealability analysis for current-state opacity enforcement via editing functions”, *IEEE Trans. on Automatic Control*, Vol. 69, pp. 7231-7238, October 2024 ([Technical Note](#)).  
10.1109/TAC.2024.3400848
- [R99] N. Ran, J. Nie, A. Meng, C. Seatzu, “Non-interference analysis of bounded Petri nets using basis reachability graph”, *IEEE Trans. on Automatic Control*, Vol. 69, pp. 7159-7165, October 2024 ([Technical Note](#)).  
10.1109/TAC.2024.3397695
- [R100] G. Chao, D. Lefebvre, C. Seatzu, Z. Li, A. Giua, “State estimation of timed automata under partial observation”, *IEEE Trans. on Automatic Control*, Vol. 70, pp. 1981-1987, March 2025 ([Technical Note](#)).  
10.1109/TAC.2024.3492955
- [R101] T. Kang, C. Seatzu, Z. Li, A. Giua, “A joint diagnoser approach for diagnosability of discrete event systems under attack”, *Automatica*, Vol. 172, February 2025.  
10.1016/j.automatica.2024.112004
- [R102] G. Xie, Y. Tong, X. Wang, C. Seatzu, “Resilient supervisor synthesis for labeled Petri nets against sensor attacks”, *IEEE Trans. on Automatic Control*, 2025.  
10.1109/TAC.2025.3528974
- [R103] D. Lefebvre, C. Seatzu, C. Hadjicostis, A. Giua, “Detectability notions for a class of finite labeled Markovian systems”, *Nonlinear Analysis: Hybrid Systems*, 2025.  
10.1016/j.nahs.2025.101586

## Book chapters

- [L1] A. Giua, C. Seatzu, “Design of observers/controllers for discrete event systems using Petri nets,” in *Synthesis and Control of Discrete Event Systems*, B. Caillaud, X. Xie, Ph. Darondeau and L. Lavagno (Eds.), Kluwer, pp. 167- 182, 2001.
- [L2] R. Armosini, A. Giua, M.T. Pilloni, C. Seatzu, “Simulation and control of a bottling plant using First-Order Hybrid Petri Nets,” in *Positive Systems*, L. Benvenuti, A. De Santis, L. Farina (Eds.), *Lecture Notes in Control and Information Sciences*, Springer-Verlag Berlin Heidelberg, Vol. 294, pp. 79 – 86, 2003.
- [L3] A. Giua, C. Mahulea, L. Recalde, C. Seatzu, M. Silva, “Optimal control of timed cont-PN,” in *Positive Systems*, C. Commault, N. Marchand (Eds.), *Lecture Notes in Control and Information Sciences*, Springer-Verlag Berlin Heidelberg, Vol. 341, pp. 383 – 390, 2006.

- [L4] A. Giua, C. Seatzu, “A systems theory view of Petri nets”, *Advances in Control Theory and Applications*, C. Bonivento, A. Isidori, L. Marconi, C. Rossi (Eds.), *Lecture Notes in Control and Information Sciences*, Springer-Verlag Berlin Heidelberg, Vol. 353, pp. 99 – 128, 2007.
- [L5] M. Dotoli, M.P. Fanti, A. Giua, C. Seatzu, “Modelling Systems by hybrid Petri nets. An application to supply chains”, *Petri Net. Theory and Application*, V. Kordic (Ed), Advanced Robotic Systems Int., ISBN 978-3-902613-12-7, pp. 91-112, 2008.
- [L6] F. Sessego, A. Giua, C. Seatzu, “HYPENS: a Matlab tool for timed discrete, continuous and hybrid Petri nets”, in *Application and Theory of Petri nets*, Kees M. van Hee, Rüdiger Valk (Eds), *Lecture Notes in Computer Science*, Springer Berlin / Heidelberg, Vol. 5062, pp. 419-428, June 2008.
- [L7] M.P. Cabasino, A. Giua, C. Seatzu, “Introduction to Petri nets”, *Control of Discrete-Event Systems. Automata and Petri Net Perspectives*, C. Seatzu, M. Silva, J.H. van Schuppen (Eds), in *Lecture Notes in Control and Information Science*, Springer, Vol. 433, pp. 191-211, 2012.
- [L8] M.P. Cabasino, A. Giua, C. Seatzu, “Structural analysis of Petri nets”, *Control of Discrete-Event Systems. Automata and Petri Net Perspectives*, C. Seatzu, M. Silva, J.H. van Schuppen (Eds), in *Lecture Notes in Control and Information Science*, Springer, Vol. 433, pp. 213-232, 2012.
- [L9] M.P. Cabasino, A. Giua, C. Seatzu, “Diagnosis of Petri nets”, *Control of Discrete-Event Systems. Automata and Petri Net Perspectives*, C. Seatzu, M. Silva, J.H. van Schuppen (Eds), in *Lecture Notes in Control and Information Science*, Springer, Vol. 433, pp. 279-298, 2012.
- [L10] B. Bérard, M.P. Cabasino, A. Di Febbraro, A. Giua, C. Seatzu, “Petri nets with time”, *Control of Discrete-Event Systems. Automata and Petri Net Perspectives*, C. Seatzu, M. Silva, J.H. van Schuppen (Eds), in *Lecture Notes in Control and Information Science*, Springer, Vol. 433, pp. 319-340, 2012.
- [L11] M.P. Cabasino, M. Dotoli, C. Seatzu, “Modeling manufacturing systems with place/transition nets and timed Petri nets” in *Formal Methods in Manufacturing*, J. Campos, C. Seatzu, X. Xie (Eds.), CRC Press, Taylor and Francis, February 2014.
- [L12] M.P. Cabasino, A. Giua, C. Seatzu, “Modeling manufacturing systems and inventory control systems with hybrid Petri nets”, in *Formal Methods in Manufacturing*, J. Campos, C. Seatzu, X. Xie (Eds.), CRC Press, Taylor and Francis, February 2014.
- [L13] C. Seatzu, X. Xie, “Supervisory control of manufacturing systems using Petri nets”, in *Formal Methods in Manufacturing*, J. Campos, C. Seatzu, X. Xie (Eds.), CRC Press, Taylor and Francis, February 2014.
- [L14] M.P. Cabasino, P. Darondeau, M.P. Fanti, C. Seatzu, “Model Identification and Synthesis of Discrete-Event Systems”, *Contemporary Issues in System Science and Engineering*, M. Zhou, H.-X. Lim M. Weijnen (Eds), IEEE/Wiley Press Book Series, April 2014.
- [L15] A. Giua, C. Seatzu, “Logical discrete-event systems”, *Encyclopedia of Systems and Control Engineering*, Elsevier, 2025 (to appear).

#### Papers on international conference proceedings

- [C1] S. Sanna, C. Seatzu, E. Usai, “An effective procedure for growth models parameter estimation”, *IMACS-IEEE Multiconference CESA'98: Computational Engineering in Systems Applications*, Vol. 1, pp. 1146-1151, Hammamet, Tunisia, April 1-4, 1998.
- [C2] C. Seatzu, A. Giua, “Observer-controller design for cranes via pole placement and gain-scheduling”, *6<sup>th</sup> IEEE Mediterranean Conf. on Control and Automation*, June 9-11, 1998, Alghero, Italy; in *Theory and Practice of Control and Systems*, A. Tornambè, G. Conte and A. M. Perdon (Eds), World Scientific Publishing, pp. 233-238.
- [C3] A. Giua, C. Seatzu, “Manufacturing control with Petri net observers”, *6<sup>th</sup> IEEE Mediterranean Conf. on Control and Automation*, June 9-11, 1998, Alghero, Italy; in *Theory and Practice of Control and Systems*, A. Tornambè, G. Conte and A. M. Perdon (Eds), World Scientific Publishing, pp. 759-764.
- [C4] A. Giua, A. Savastano, C. Seatzu, G. Usai, “Tandem active-passive suspension design with constraints on the forces”, *Int. Conf. On Advances in Vehicle Control and Safety*, pp. 460-466, Amiens, France, July 1998.
- [C5] A. Giua, A. Savastano, C. Seatzu, G. Usai, “Approximation of an optimal gain switching active law with a semiactive suspension”, *1998 IEEE Conf. on Control Applications*, pp. 248-252, Trieste, Italy, September 1-4, 1998.
- [C6] C. Seatzu, A. Giua, G. Usai, “Decentralized volume control of open-channels using  $H_2$  norm minimization”, *1998 IEEE Int. Conf. on System, Man and Cybernetics*, pp. 3891-3896, San Diego, October 1998.
- [C7] F. Balduzzi, G. Menga, A. Giua, C. Seatzu, “A linear state variable model for first-order hybrid Petri nets”, *14<sup>th</sup> World Congress of Int. Federation of Automatic Control*, pp. 205-210, Beijing, Cina, July 5-9, 1999.

- [C8] C. Seatzu, "A numerical algorithm for the design of a decentralized controller for open-channel networks", *7<sup>th</sup> IEEE Mediterranean Conf. on Control and Automation*, pp. 580-592, Haifa, Israel, June 28-30, 1999.
- [C9] C. Seatzu, "A parameter estimation method for a special class of systems of ordinary differential equations", *7<sup>th</sup> IEEE Mediterranean Conf. on Control and Automation*, pp. 1645-1656, Haifa, Israel, June 28-30, 1999.
- [C10] C. Seatzu, "Robust PI decentralized control law for open-channel hydraulic systems", *European Control Conf. ECC'99*, Karlsruhe, Germany, August 31-Sept. 3, 1999.
- [C11] C. Seatzu, "Design of decentralized output feedback control law by solving a linear least squares problem", *1999 IEEE Conf. on Control Applications*, pp. 356-369, Island of Hawai'i, Hawai'i, USA, August 22-27, 1999.
- [C12] F. Balduzzi, A. Giua, C. Seatzu, "Modelling automated manufacturing systems with hybrid automata", *Workshop on Formal Methods and Manufacturing*, pp. 33- 48, Zaragoza, Spain, September 6, 1999.
- [C13] F. Balduzzi, A. Giua, C. Seatzu, "Hybrid Control of Production Systems with Local Optimization", *7<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, pp. 1531-1540, Barcelona, Catalonia, Spain, October 18-22, 1999.
- [C14] C. Seatzu, F. Balduzzi, A. Di Febbraro, A. Giua, "Decidability of single-rate hybrid Petri nets", *38<sup>th</sup> IEEE Conf. on Decision and Control*, pp. 2234-2248, Phoenix, Arizona, USA, December 7-10, 1999.
- [C15] F. Balduzzi, A. Di Febbraro, A. Giua, C. Seatzu, "Unitary-rate Hybrid Petri Nets", *Proc. 3<sup>rd</sup> IMACS Symp. on Mathematical Modelling MATHMOD*, pp. 461-465, Vienna, Austria, February 2-4, 2000.
- [C16] C. Seatzu, G. Usai, "A linear decoupled model of open-channels for the synthesis of a decentralized volume variation observer", *Proc. 3<sup>rd</sup> IMACS Symp. on Mathematical Modelling MATHMOD*, pp. 179-182, Vienna, Austria, February 2-4, 2000.
- [C17] A. Giua, M. Sanna, C. Seatzu, "Modelling and control of 3D overhead cranes", *Proc. 3<sup>rd</sup> IMACS Symp. on Mathematical Modelling MATHMOD*, pp. 839-843, Vienna, Austria, February 2-4, 2000.
- [C18] C. Seatzu, "Decentralized control of irrigation open-channels via eigenstructure assignment", *Proc. 3<sup>rd</sup> IMACS Symp. on Mathematical Modelling MATHMOD*, pp. 183-186, Vienna, Austria, February 2-4, 2000.
- [C19] A. Giua, A. Piccaluga, C. Seatzu, "Incremental Optimization of Timed Cyclic Event Graphs", *2000 IEEE Int. Conf. on Robotics and Automation*, pp. 2211-2216, San Francisco, California, USA, April 22-28, 2000.
- [C20] A. Giua, A. Piccaluga, C. Seatzu, "Optimal token allocation in timed cyclic event graphs", *5<sup>th</sup> Workshop on Discrete Event Systems*, August 21-23, 2000, Ghent, Belgium; in *Discrete Event Systems, Analysis and Control*, R. Boel, G. Stremersch (Eds), Kluwer Academic Publishers, pp. 209-218.
- [C21] A. Giua, R. Furcas, A. Piccaluga, C. Seatzu, "Modeling and Control of Inventory Management Policies Using First-Order Hybrid Petri Nets", *4<sup>th</sup> Int. Conf. Automation of Mixed Processes: Hybrid Dynamical Systems*, pp. 273-278, Dortmund, Germany, September 18-19, 2000.
- [C22] B. Cannas, A. Fanni, A. Giua, C. Seatzu, "Chaotic Behaviour in Hybrid Systems", *4<sup>th</sup> Int. Conf. Automation of Mixed Processes: Hybrid Dynamical Systems*, pp. 209-215, Dortmund, Germany, September 18-19, 2000.
- [C23] A. Giua, C. Seatzu, "Observability Properties of Petri Nets", *39<sup>th</sup> IEEE Conf. on Decision and Control*, pp. 2676-2681, Sydney, Australia, December 12-15, 2000.
- [C24] A. Giua, C. Seatzu, G. Usai, "Active Axletree Suspension for Road Vehicles with Gain-Switching", *39<sup>th</sup> IEEE Conf. on Decision and Control*, pp. 438-443, Sydney, Australia, December 12-15, 2000.
- [C25] F. Diana, A. Giua, C. Seatzu, "Safeness-Enforcing Supervisory Control for Railway Networks", *2001 IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics*, pp. 99-104, Como, Italy, July 8-11, 2001.
- [C26] A. Giua, C. Seatzu, "The Observer Coverability Graph for the Analysis of Observability Properties of Place/Transition Nets", *European Control Conference ECC'01*, pp. 1339-1344, Porto, Portugal, September 4-7, 2001.
- [C27] R. Furcas, A. Giua, A. Piccaluga, C. Seatzu, "Modeling Production Systems with Inventory Using Hybrid Petri Nets", *2001 IEEE Conf. on Control Applications*, pp. 434-440, Mexico City, Mexico, September 5-7, 2001.
- [C28] A. Giua, C. Seatzu, C. Van Der Mee, "Optimal Control of Autonomous Linear Systems Switched with a Pre-assigned Finite Sequence", *2001 Int. Symp. on Intelligent Control*, pp. 144-149, Mexico City, Mexico, September 5-7, 2001.
- [C29] F. Basile, P. Chiacchio, A. Giua, C. Seatzu, "Deadlock recovery of controlled Petri net models using observers", *8<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, pp. 441-449, Antibes, France, October 15-18, 2001.
- [C30] A. Giua, C. Seatzu, "Supervisory control of railway networks with Petri nets", *40<sup>th</sup> IEEE Conf. on Decision and Control*, pp. 5004-5009, Orlando, Florida, December 3-7, 2001.
- [C31] M. Ebau, A. Giua, C. Seatzu, G. Usai, "Semiaactive suspension design taking into account the actuator delay", *40<sup>th</sup> IEEE Conf. on Decision and Control*, pp. 93-98, Orlando, Florida, December 3-7, 2001.

- [C32] A. Giua, C. Seatzu, C. Van Der Mee, "Optimal control of switched autonomous linear systems", *40<sup>th</sup> IEEE Conf. on Decision and Control*, pp. 2472 – 2477, Orlando, Florida, December 3-7, 2001.
- [C33] A. Bemporad, A. Giua, C. Seatzu, "An iterative algorithm for the optimal control of continuous—time switched linear systems", *6<sup>th</sup> Int. Workshop on Discrete Event Systems*, pp. 335 – 340, Zaragoza, Spain, October 2-4, 2002.
- [C34] A. Giua, C. Seatzu, "Liveness enforcing supervisors for railway networks using ES2PR Petri nets", *6<sup>th</sup> Int. Workshop on Discrete Event Systems*, pp. 55 – 60, Zaragoza, Spain, October 2-4, 2002.
- [C35] A. Giua, A. Meloni, M.T. Piloni, C. Seatzu, "Modeling of a bottling plant using hybrid Petri nets", *2002 IEEE Int. Conf. on Systems, Man and Cybernetics*, pp. 375 - 380, Hammamet, Tunisia, October 6-9, 2002.
- [C36] M. Balliccu, A. Giua, C. Seatzu, "Job-shop scheduling models with set-up times", *2002 IEEE Int. Conf. on Systems, Man and Cybernetics*, pp. 95-100, Hammamet, Tunisia, October 6-9, 2002.
- [C37] A. Bemporad, A. Giua, C. Seatzu, "Synthesis of state-feedback optimal controllers for switched linear systems", *IEEE 41<sup>st</sup> Int. Conf. on Decision and Control*, pp. 3182 – 3187, Las Vegas, Nevada, December 2002.
- [C38] A. Bemporad, A. Giua, C. Seatzu, "A master-slave algorithm for the optimal control of continuous-time switched affine systems", *IEEE 41<sup>st</sup> Int. Conf. on Decision and Control*, pp. 1976 – 1981, Las Vegas, Nevada, December 2002.
- [C39] A. Giua, C. Seatzu, F. Basile, "Petri net control using event observers and timing information", *IEEE 41<sup>st</sup> Int. Conf. on Decision and Control*, pp. 787 – 792, Las Vegas, Nevada, December 2002.
- [C40] Giua, C. Seatzu, "Deadlock Characterization for Petri Nets Controlled Using GMEC's and Observers", *Proc. 2003 American Control Conference*, pp. 320 – 325, Denver, Colorado, June 2003.
- [C41] A. Giua, J. Júlvez, C. Seatzu, "Marking Estimation of Petri Nets based on Partial Observation", *2003 American Control Conference*, pp. 326 – 331, Denver, Colorado, June 2003.
- [C42] A. Bemporad, D. Corona, A. Giua, C. Seatzu, "Optimal State-Feedback Quadratic Regulation of Linear Hybrid Automata", *1<sup>st</sup> IFAC Conf. on Analysis and Design of Hybrid Systems*, pp. 407 – 412, Saint-Malo, France, June 2003.
- [C43] F. Basile, A. Giua, C. Seatzu, "Observer-based state-feedback control of timed Petri nets with deadlock recovery: Theory and Implementation", *Proc. Multiconference on Computational Engineering in Systems Applications*, Lille, France, July 2003.
- [C44] A. Giua, M. Melas, C. Seatzu, "Design of a control law for a magneto-rheological suspension", *European Control Conference ECC03*, Cambridge, UK, September 2003.
- [C45] D. Corona, A. Giua, J. Júlvez, C. Seatzu, "Observers for nondeterministic  $\lambda$ -free labeled Petri nets", *9<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, pp. 307 – 314, Lisbon, Portugal, September 2003.
- [C46] M. P. Fanti, A. Giua, C. Seatzu, "A deadlock prevention method for railway networks using monitors for colored Petri nets", *2003 IEEE Int. Conf. on Systems, Man and Cybernetics*, Washington, D.C., USA, pp. 1866 – 1873, October 2003.
- [C47] M. P. Fanti, A. Giua, C. Seatzu, "Generalized mutual exclusion constraints and monitors for colored Petri nets", *2003 IEEE Int. Conf. on Systems, Man and Cybernetics*, Washington, D.C., USA, pp. 1860 – 1865, October 2003.
- [C48] A. Giua, M. Melas, C. Seatzu, "Design of a control law for a semiactive suspension system using a solenoid valve damper", *2004 IEEE Conf. on Control Applications*, Taipei, Taiwan, pp. 1467 – 1472, September 2004.
- [C49] D. Corona, A. Giua, C. Seatzu, "Optimal Feedback Switching Laws for Autonomous Hybrid Automata", *2004 IEEE Int. Symp. on Intelligent Control*, Taipei, Taiwan, pp. 31 – 36, September 2004.
- [C50] D. Corona, A. Giua, C. Seatzu, D. Gromov, E. Mayer, J. Raisch, "Optimal hybrid control for switched linear systems under safety and liveness constraints", *2004 IEEE Conf. on Computer Aided Control Systems Design*, Taipei, Taiwan, pp. 35 – 40, September 2004.
- [C51] A. Giua, C. Seatzu, "Monitor design for Colored Petri nets with uncontrollable and unobservable transitions", *7<sup>th</sup> Int. Workshop on Discrete Event Systems*, Reims, France, pp. 361-366, September 2004.
- [C52] A. Giua, D. Corona, C. Seatzu, "State estimation and control of nondeterministic  $\lambda$ -free labeled Petri nets", *7<sup>th</sup> Int. Workshop on Discrete Event Systems*, Reims, France, pp. 421-426, September 2004.
- [C53] A. Giua, C. Seatzu, "A systems theory view of Petri nets", *7<sup>th</sup> Int. Workshop on Discrete Event Systems*, Reims, France, pp. 15-17, September 2004.
- [C54] A. Giua, C. Seatzu, F. Basile, "Control and deadlock recovery of timed Petri nets using observers", *MOSIM'04: 5eme Conf. Francophone de Modélisation et Simulation*, Nantes, France, pp. 5–15, September 2004.
- [C55] D. Corona, A. Giua, C. Seatzu, "Marking estimation of Petri nets with silent transitions", *43<sup>rd</sup> IEEE Int. Conf. on Decision and Control*, Atlantis, Paradise Island, Bahamas, pp. 966-971, December 2004.

- [C56] D. Corona, A. Giua, C. Seatzu, D. Gromov, E. Mayer, J. Raisch, "Optimal control of discrete-time hybrid automata under safety and liveness constraints", *2005 IEEE Int. Symp. on Intelligent Control*, Limassol, Cyprus, June 2005.
- [C57] D. Corona, A. Giua, C. Seatzu, "Stabilization of switched systems via optimal control", *16<sup>th</sup> IFAC World Congress*, Prague, Czech Republic, July 2005.
- [C58] D. Corona, A. Giua, C. Seatzu, "Quantized optimal control of discrete-time systems", *10<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, Catania, Italy, September 2005.
- [C59] F. Basile, A. Giua, C. Seatzu, "Decentralized supervisory control of Petri nets with monitor places", *10<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, Catania, Italy, September 2005.
- [C60] A. Giua, C. Seatzu, "Fault detection for discrete event systems using labeled Petri nets", *CDC-ECC'05: 44<sup>th</sup> Int. Conf. on Decision and Control and European Control Conference 2005*, Seville, Spain, December 2005.
- [C61] A. Giua, C. Seatzu, "Identification of free-labeled Petri nets via integer programming", *CDC-ECC'05: 44<sup>th</sup> Int. Conf. on Decision and Control and European Control Conference 2005*, Seville, Spain, December 2005.
- [C62] A. Giua, C. Mahulea, L. Recalde, C. Seatzu, M. Silva, "On sampling continuous timed Petri nets: reachability "equivalence" under infinite servers semantics," *2<sup>nd</sup> IFAC Conf. on Analysis and Design of Hybrid Systems*, Alghero, Italy, June 2006.
- [C63] T. Paschedag, A. Giua, C. Seatzu, "Constrained optimal control: an application to semiactive suspension systems," *14<sup>th</sup> IEEE Mediterranean Conference on Control Automation*, Ancona, Italy, June 2006.
- [C64] A. Giua, C. Mahulea, L. Recalde, C. Seatzu, M. Silva, "Optimal control of continuous Petri nets via model predictive control," *8<sup>th</sup> Int. Workshop on Discrete Event Systems*, Ann Arbor, Michigan, USA, July 2006.
- [C65] M.P. Cabasino, A. Giua, C. Seatzu, "Identification of deterministic Petri nets," *8<sup>th</sup> Int. Workshop on Discrete Event Systems*, Ann Arbor, Michigan, USA, July 2006.
- [C66] M.P. Cabasino, A. Giua, C. Seatzu, "Computational complexity analysis of a Petri net identification procedure", *2006 International Symposium on Nonlinear Theory and its Applications*, Bologna, Italy, September 2006.
- [C67] M.P. Cabasino, A. Giua, C. Seatzu, "Identification of unbounded Petri nets from their coverability graph", *45<sup>th</sup> IEEE Conf. on Decision and Control*, San Diego, CA, USA, December 2006.
- [C68] F. Basile, A. Giua, C. Seatzu, "Supervisory control of Petri nets with decentralized monitor places", *2007 American Control Conference*, New York, USA, July 2007.
- [C69] M.P. Cabasino, A. Giua, C. Seatzu, "Marking estimation of Petri nets with arbitrary transition labelling", *1<sup>st</sup> IFAC Work. on Dependable Control of Discrete Systems* (Paris, France), June 2007.
- [C70] F. Basile, A. Giua, C. Seatzu, "Decentralized supervisory control of Petri nets with monitor places", *3<sup>rd</sup> Annual IEEE Conf. on Automation Science and Engineering* (Scottsdale, Arizona), September 2007.
- [C71] C. Mahulea, M.P. Cabasino, A. Giua, L. Recalde, C. Seatzu, M. Silva, "State estimation of Petri nets by transformation", *3<sup>rd</sup> Annual IEEE Conf. on Automation Science and Engineering* (Scottsdale, Arizona), September 2007.
- [C72] M. Franceschelli, A. Giua, C. Seatzu, "Load balancing on networks with gossip-based distributed algorithms", *46<sup>th</sup> IEEE Conf. on Decision and Control* (New Orleans, LA, USA), December 2007.
- [C73] C. Mahulea, M.P. Cabasino, A. Giua, C. Seatzu, "A state estimation problem for timed continuous Petri nets", *46<sup>th</sup> IEEE Conf. on Decision and Control* (New Orleans, LA, USA), December 2007.
- [C74] F. Basile, A. Giua, C. Seatzu, "Some New Results on Supervisory Control of Petri Nets with Decentralized Monitor Places", *17<sup>th</sup> IFAC World Congress*, (Seoul, Korea), July 2008.
- [C75] A. Giua, C. Mahulea, L. Recalde, C. Seatzu, M. Silva, "Properties of continuous Petri nets controlled via model predictive control", *9<sup>th</sup> Int. Workshop on Discrete Event Systems*, (Göteborg, Sweden), May 2008.
- [C76] M.P. Cabasino, A. Giua, C. N. Hadjicostis, C. Seatzu, "Fault Identification in Petri Nets", *9<sup>th</sup> Int. Workshop on Discrete Event Systems*, (Göteborg, Sweden), May 2008.
- [C77] S. Lai, D. Nessi, M.P. Cabasino, A. Giua, C. Seatzu, "A comparison between two diagnostic tools based on automata and PNs", *9<sup>th</sup> Int. Workshop on Discrete Event Systems*, (Göteborg, Sweden), May 2008.
- [C78] M.P. Fanti, C. Seatzu, "Fault diagnosis and identification of discrete event systems using Petri nets", *9<sup>th</sup> Int. Workshop on Discrete Event Systems*, (Göteborg, Sweden), May 2008.
- [C79] A. Giua, C. Seatzu, F. Sessego, "Simulation and analysis of hybrid Petri nets using the Matlab tool HYPENS", *2008 IEEE Int. Conf. on Systems, Man and Cybernetics*, (Singapore), October 2008.
- [C80] M.P. Cabasino, A. Giua, C. Seatzu, "Linear Programming Techniques for the Identification of Place/Transition Nets", *47<sup>th</sup> IEEE Conference on Decision and Control* (Cancun, Mexico), December 2008.
- [C81] M. Franceschelli, A. Giua, C. Seatzu, "Load balancing over heterogeneous networks with gossip-based algorithms", *2009 American Control Conference*, (St. Louis, Missouri, USA), June 2009.

- [C82] M.P. Cabasino, C. Mahulea, L. Recalde, C. Seatzu, M. Silva, "Observer Design for Untimed Continuous Petri Nets", *2009 American Control Conference*, (St. Louis, Missouri, USA), June 2009.
- [C83] M.P. Cabasino, A. Giua, C. Seatzu, "Diagnosis of discrete event systems using labeled Petri nets", *2<sup>nd</sup> IFAC Conf. on Dependable Control of Discrete Systems* (Bari, Italy), June 2009.
- [C84] M. Franceschelli, A. Giua, C. Seatzu, "Hamiltonian Quantized Gossip", *Int. Symposium on Intelligent Control* (Saint Petersburg, Russia), July 2009.
- [C85] M.P. Cabasino, C. Mahulea, C. Seatzu, M. Silva, "Fault diagnoser design for untimed continuous Petri nets", *Int. Symposium on Intelligent Control* (Saint Petersburg, Russia), July 2009.
- [C86] M. Franceschelli, A. Giua, C. Seatzu, "Decentralized Fault Diagnosis for Sensor Networks", *5th Annual IEEE Conference on Automation Science and Engineering*, (Bangalore, India), August 2009.
- [C87] M.P. Cabasino, A. Giua, C. Seatzu, "Discrete event diagnosis using Petri nets", *6th Int. Conf. on Informatics in Control, Automation and Robotics*, (Milano, Italy), July 2009.
- [C88] M. Franceschelli, A. Giua, C. Seatzu, "Consensus on the Average on Arbitrary Strongly Connected Digraphs Based on Broadcast Gossip Algorithms", *1<sup>st</sup> IFAC Workshop on Estimation and Control of Networked Control Systems*, (Venezia, Italy), September 2009.
- [C89] A. Giua, C. Seatzu, Y. Wardi, "Application of IPA to Fluid Petri Nets", *3<sup>rd</sup> IFAC Conf. on Analysis and Design of Hybrid Systems*, Zaragoza, Spain, September 2009.
- [C90] M.P. Cabasino, A. Giua, C. Seatzu, "Diagnosability of Bounded Petri nets", *48<sup>th</sup> IEEE Conference on Decision and Control* (Shanghai, China), December 2009.
- [C91] M.P. Cabasino, C. Mahulea, C. Seatzu, M. Silva, "New Results for Fault Detection of untimed Continuous Petri nets", *48<sup>th</sup> IEEE Conference on Decision and Control* (Shanghai, China), December 2009.
- [C92] M.P. Cabasino, A. Giua, S. Lafortune, C. Seatzu, "Diagnosability of Unbounded Petri nets", *48<sup>th</sup> IEEE Conference on Decision and Control* (Shanghai, China), December 2009.
- [C93] M. Franceschelli, A. Gasparri, A. Giua, C. Seatzu, "Decentralized Laplacian Eigenvalues Estimation of the Network Topology of a Multi-Agent System", *48<sup>th</sup> IEEE Conference on Decision and Control* (Shanghai, China), December 2009.
- [C94] M.P. Cabasino, A. Giua, A. Paoli, C. Seatzu, "Decentralized diagnosis of Petri nets", *2010 American Control Conference* (Baltimore, USA), June 30 – July 2, 2010.
- [C95] M.P. Cabasino, A. Giua, C. Seatzu, "Diagnosis using labeled Petri nets: faults may either be silent or undistinguishable events", *6th annual IEEE Conference on Automation Science and Engineering*, (Toronto, Canada), August 2010.
- [C96] M.P. Cabasino, A. Giua, A. Paoli, C. Seatzu, "A new protocol for the decentralized diagnosis of labeled Petri nets", *10<sup>th</sup> Int. Workshop on Discrete Event Systems*, (Berlin, Germany), August 31-September 1, 2010.
- [C97] A. Giua, C. Seatzu, Y. Wardi, "IPA for continuous Petri nets", *10<sup>th</sup> Int. Workshop on Discrete Event Systems*, (Berlin, Germany), August 31-September 1, 2010.
- [C98] M.P. Cabasino, C. Mahulea, C. Seatzu, M. Silva, "Fault diagnosis of manufacturing systems using Continuous Petri nets", *2010 IEEE Int. Conference on Systems, Man and Cybernetics*, (Istanbul, Turkey), October 2010.
- [C99] A. Giua, C. Seatzu, Y. Wardi, "IPA for Continuous Petri nets with Threshold-Based Flow Control", *18th IFAC World Congress*, (Milano, Italy), August 28-September 2, 2011.
- [C100] M.P. Cabasino, A. Giua, A. Paoli, C. Seatzu, "Decentralized diagnosability analysis of discrete event systems using Petri nets", *18th IFAC World Congress*, (Milano, Italy), August 28-September 2, 2011.
- [C101] M.P. Cabasino, A. Giua, A. Solinas, C. Seatzu, K. Zedda, "Fault diagnosis of an ABS system using Petri nets", *IEEE 7<sup>th</sup> Int. Conf. on Automation Science and Engineering*, (Trieste, Italy), August 24-27, 2011.
- [C102] M.P. Cabasino, A. Giua, C. Seatzu, A. Solinas, L. Contini, "A software platform for the integration of discrete event systems tools", *IEEE 7<sup>th</sup> Int. Conf. on Automation Science and Engineering*, (Trieste, Italy), August 24-27, 2011.
- [C103] M.P. Cabasino, A. Giua, C. Mahulea, C. Seatzu, "On decentralized observability of discrete event systems", *50<sup>th</sup> IEEE Int. Conf. on Decision and Control*, (Orlando, Florida, USA), December 12-15, 2011.
- [C104] M. Franceschelli, D. Rosa, C. Seatzu, F. Bullo, "A gossip algorithm for heterogeneous multi-vehicle routing problems", *4<sup>th</sup> IFAC Conf. on the Analysis and Design of Hybrid Systems*, (Eindhoven, The Netherlands), June 6-8, 2012.
- [C105] M.P. Cabasino, A. Giua, C. Seatzu, "Diagnosability analysis of an ABS system modeled using Petri nets", *8<sup>th</sup> IFAC Symposium on Fault Detection, Supervision and Safety of Technical Processes*, (Mexico City, Mexico), August 29-31, 2012.
- [C106] M.P. Cabasino, A. Giua, L. Marcias, C. Seatzu, "Comparison among tools for the diagnosability analysis of Petri nets", *8<sup>th</sup> IEEE Int. Conference on Automation Science and Engineering*, (Seoul, Korea), August 20-24, 2012.



- [C107] M.P. Cabasino, S. Lafortune, C. Seatzu, “Optimal sensor selection for ensuring diagnosability in labeled bounded Petri nets”, *11<sup>th</sup> Int. Workshop on Discrete Event Systems*, (Guadalajara, Mexico), October 3-5, 2012.
- [C108] D. Rosa, M. Franceschelli, C. Seatzu, F. Bullo, “A gossip based heuristic algorithm for heterogeneous multi-vehicle routing problems”, *3<sup>rd</sup> IFAC Workshop on Distributed Estimation and Control in Networked Systems*, (Santa Barbara, California, USA), September 14-15, 2012.
- [C109] M.P. Cabasino, M. Dotoli, C. Seatzu, “Marking estimation of fuzzy Petri nets”, *17<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, (Kraków, Poland), September 17-21, 2012.
- [C110] M. Zareh, C. Seatzu, M. Franceschelli, “Consensus of second-order multi-agent systems with time delays and slow switching topology”, *2013 IEEE International Conference on Networking, Sensing and Control*, (Paris, France), April 10-12, 2013.
- [C111] C. Seatzu, Y. Wardi, “On the Use of IPA in Performance Optimization of Continuous Marked Graphs: A Case Study”, *18<sup>th</sup> IEEE Conference on Emerging Technology and Factory Automation*, (Cagliari, Italy), September 10-13, 2013.
- [C112] F. Basile, M.P. Cabasino, C. Seatzu, “State estimation of Time Petri nets with unobservable transitions”, *18<sup>th</sup> IEEE Conference on Emerging Technology and Factory Automation*, (Cagliari, Italy), September 10-13, 2013.
- [C113] S. Riazi, O. Wigstrom, C. Seatzu, B. Lennartson, “Benders/Gossip Methods for Optimizing the Heterogeneous Multi-Vehicle Routing Problem”, *18<sup>th</sup> IEEE Conference on Emerging Technology and Factory Automation*, (Cagliari, Italy), September 10-13, 2013.
- [C114] M. Noori Hosseini, B. Lennartson, M.P. Cabasino, C. Seatzu, “Efficient diagnosability test for automata and bounded Petri nets”, *18<sup>th</sup> IEEE Conference on Emerging Technology and Factory Automation*, (Cagliari, Italy), September 10-13, 2013.
- [C115] M. Zareh, C. Seatzu, M. Franceschelli, “Consensus on the average in arbitrary directed network topologies with time-delays”, *4<sup>th</sup> IFAC Workshop on Distributed Estimation and Control in Networked Systems*, (Koblenz, Germany), September 25-26, 2013.
- [C116] M.P. Cabasino, C. Hadjicostis, C. Seatzu, “Marking observer of labeled Petri nets with uncertainty in the initial marking”, *IEEE Int. Conf. on Systems, Man and Cybernetics*, (Manchester, UK), October 13-16, 2013.
- [C117] M.P. Cabasino, C. Hadjicostis, C. Seatzu, “Probabilistic marking estimation in labeled Petri nets”, *52<sup>nd</sup> IEEE Int. Conf. on Decision and Control*, (Florence, Italy), December 10-13, 2013.
- [C118] M. Dotoli, N. Epicoco, M. Falagario, C. Seatzu, B. Turchiano, “Optimization of intermodal rail-road freight transport terminals”, *2014 IEEE Int. Conf. on Robotics and Automation*, Hong Kong, China, May 31 – June 5, 2014.
- [C119] M. Franceschelli, A. Giua, C. Seatzu, “Fast discrete consensus based on gossip for makespan minimization in networked systems”, *19<sup>th</sup> IFAC World Congress*, Cape Town, South Africa, August 24-29, 2014.
- [C120] C. Seatzu, Y. Wardi, “Performance regulation via integral control in a class of stochastic discrete event dynamic systems”, *12<sup>th</sup> IFAC International Workshop on Discrete Event Systems*, Cachan, France, May 14-16, 2014.
- [C121] F. Basile, M.P. Cabasino, C. Seatzu, “K-diagnosability of Time labeled Petri nets”, *12<sup>th</sup> IFAC International Workshop on Discrete Event Systems*, Cachan, France, May 14-16, 2014.
- [C122] A. Giua, C. Seatzu, “A survey on state estimation using Petri nets”, *13<sup>th</sup> European Control Conference*, Strasbourg, France, June 24-27, 2014.
- [C123] M.P. Cabasino, C. Hadjicostis, C. Seatzu, “State feedback control of labeled Petri nets with uncertainty in the initial marking”, *19<sup>th</sup> IEEE Int. Conference on Emerging Technologies and Factory Automation*, Barcelona, Spain, September 16-19, 2014.
- [C124] M. Zareh, D. Dimarogonas, M. Franceschelli, K.H. Johansson, C. Seatzu, “Consensus in multi-agent systems with second-order dynamics and non-periodic sampled-data exchange”, *19<sup>th</sup> IEEE Int. Conference on Emerging Technologies and Factory Automation*, Barcelona, Spain, September 16-19, 2014.
- [C125] M.P. Cabasino, C. Hadjicostis, C. Seatzu, “Initial marking estimation in labeled Petri nets in probabilistic setting”, *53<sup>rd</sup> IEEE Conference on Decision and Control*, Los Angeles, CA, USA, December 15-17, 2014.
- [C126] Y. Wardi, C. Seatzu, “Infinitesimal perturbation analysis of stochastic hybrid systems: Application to congestion management”, *53<sup>rd</sup> IEEE Conference on Decision and Control*, Los Angeles, CA, USA, December 15-17, 2014.
- [C127] C.A. López-Limón, M. Franceschelli, C. Seatzu, A. Ramirez, “A dynamic average consensus algorithm for common reference frame estimation in networked multi-agent systems”, *53<sup>rd</sup> IEEE Conference on Decision and Control*, Los Angeles, CA, USA, December 15-17, 2014.

- [C128] M. Zareh, D. Dimarogonas, M. Franceschelli, K.H. Johansson, C. Seatzu, "Consensus in multi-agent systems with non-periodic sampled-data exchange and uncertain network topology", *2014 Int. Conf. on Control, Decision, and Information Technologies*, Metz, France, November 3-5, 2014.
- [C129] S. Wang, C. Seatzu, L. Huang, "A three stage deadlock prevention strategy for  $S^3PR$  nets", *CASE'2015: IEEE Conf. on Automation Science and Engineering*, Gothenburg, Sweden, August 2015.
- [C130] M. Franceschelli, A. Giua, C. Seatzu, "Distributed task assignment based on gossip with guaranteed performance on heterogeneous networks", *5<sup>th</sup> IFAC Conf. on the Analysis and Design of Hybrid Systems*, Atlanta, USA, October 2015.
- [C131] C. Seatzu, Y. Wardi, "Congestion management in traffic-light intersections via Infinitesimal Perturbation Analysis", *5<sup>th</sup> IFAC Conf. on the Analysis and Design of Hybrid Systems*, Atlanta, USA, October 2015.
- [C132] M. Dotoli, N. Epicoco, C. Seatzu, "An improved technique for train load planning at intermodal rail-road terminals", *20<sup>th</sup> IEEE Int. Conf. on Emerging Technologies in Factory Automation*, Luxembourg, September 2015.
- [C133] M. Dotoli, A. Fay, M. Miśkowicz, C. Seatzu, "A survey on advanced control approaches in factory automation", *2015 IFAC Symposium on Information Control in Manufacturing*, Ottawa, Canada, May 2015.
- [C134] Y. Tong, Z. Li, A. Giua, C. Seatzu, "Verification of Current-State Opacity Using Petri Nets", *2015 IEEE American Control Conference*, Chicago, IL, July 2015.
- [C135] S. Wang, D. You, C. Seatzu, A. Giua, "Complete enumeration of minimal siphons in ordinary Petri nets based on problem partitioning", *54<sup>th</sup> IEEE Conference on Decision and Control*, Osaka, Japan, December 15-18, 2015.
- [C136] Y. Tong, Z. Li, A. Giua, C. Seatzu, "Verification of initial-state opacity in Petri nets", *54<sup>th</sup> IEEE Conference on Decision and Control*, *54<sup>th</sup> IEEE Conference on Decision and Control*, Osaka, Japan, December 15-18, 2015.
- [C137] Y. Tong, Z. Ma, Z. Li, C. Seatzu, A. Giua, "Verification of language-based opacity in Petri nets using Verifier", *2016 American Control Conference*, Boston, July 6-8, 2016.
- [C138] C.N. Hadjicostis, C. Seatzu, "Decentralized state estimation in discrete event systems under partially ordered observation sequences", *13<sup>th</sup> Int. Workshop on Discrete Event Systems*, Xi'an, China, May 30-June 1, 2016.
- [C139] Y. Dan, S. Wang, C. Seatzu, "A new linear constraint transformation approach for Petri nets with uncontrollable transitions", *13<sup>th</sup> Int. Workshop on Discrete Event Systems*, Xi'an, China, May 30-June 1, 2016.
- [C140] G. Cavone, M. Dotoli, C. Seatzu, "Resource planning of intermodal terminals using timed Petri nets", *13<sup>th</sup> Int. Workshop on Discrete Event Systems*, Xi'an, China, May 30-June 1, 2016.
- [C141] Y. Tong, Z. Li, C. Seatzu, A. Giua, "Supervisory enforcement of current-state opacity with uncomparable observations", *13<sup>th</sup> Int. Workshop on Discrete Event Systems*, Xi'an, China, May 30-June 1, 2016.
- [C142] C.N. Hadjicostis, C. Seatzu, "K-detectability in discrete event systems", *55<sup>th</sup> IEEE Conf. on Decision and Control*, Las Vegas, USA, December 12-14, 2016.
- [C143] N. Ran, H. Su, A. Giua, C. Seatzu, "Codiagnosability verification of bounded Petri nets using basis markings", *55<sup>th</sup> IEEE Conf. on Decision and Control*, Las Vegas, USA, December 12-14, 2016.
- [C144] Y. Wardi, C. Seatzu, M. Egerstedt, C. Seatzu, I. Bickley "Performance regulation and tracking via lookahead simulation: preliminary results and validation", *56<sup>th</sup> IEEE Conf. on Decision and Control*, Melbourne, Australia, December 12-15, 2017.
- [C145] Y. Dan, S. Wang, H. Dou, W. Duo, K. Barkaoui, C. Seatzu, "Liveness enforcement for a class of Petri nets via resource allocation", *2018 IEEE Int. Conf. on Systems, Man, and Cybernetics*, Miyazaki, Japan, October 7-10, 2018.
- [C146] G. Cavone, M. Dotoli, N. Epicoco, D. Morelli, C. Seatzu, "A game-theoretical design technique for multi-stage supply chains under uncertainty", *14<sup>th</sup> IEEE Int. Conf. on Automation Science and Engineering*, Munich, Germany, August 20-24, 2018.
- [C147] N. Ran, J. Hao, Z. He, C. Seatzu, "Diagnosability analysis of bounded Petri nets", *23<sup>rd</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, Turin, Italy, September 4-7, 2018.
- [C148] Q. Zhang, Z. Li, C. Seatzu, A. Giua, "Stealthy attacks for partially-observed discrete event systems", *23<sup>rd</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, Turin, Italy, September 4-7, 2018.
- [C149] C. Seatzu, "Partially observed discrete-event systems: from state estimation to intrusion detection", *14<sup>th</sup> Workshop on Discrete Event Systems*, Sorrento, Italy, May 30 - June 1, 2018.
- [C150] Y. Wardi, C. Seatzu, M. Egerstedt, "Tracking control via variable-gain integrator and lookahead simulation: Application to leader-follower multiagent networks", *14<sup>th</sup> Workshop on Discrete Event Systems*, Sorrento, Italy, May 30 - June 1, 2018.

- [C151] S. Liu, Y. Tong, C. Seatzu, A. Giua, “PetriBaR: A MATLAB toolbox for Petri nets implementing basis reachability approaches”, *14<sup>th</sup> Workshop on Discrete Event Systems*, Sorrento, Italy, May 30 - June 1, 2018.
- [C152] G. Cavone, M. Dotoli, N. Epicoco, M. Franceschelli, C. Seatzu, “Hybrid Petri nets to re-design low automated production processes: the case study of a Sardinian bakery”, *14<sup>th</sup> Workshop on Discrete Event Systems*, Sorrento, Italy, May 30 - June 1, 2018.
- [C153] G. Cavone, M. Dotoli, N. Epicoco, C. Seatzu, “Efficient resource planning of intermodal terminals under uncertainty”, *5<sup>th</sup> IFAC Symposium on Control in Transportation Systems*, Savona, Italy, June 6-8, 2018.
- [C154] Z.A.Z. Sanai Dashti, C. Seatzu, M. Franceschelli, “Dynamic consensus on the median value in open multi-agent systems”, *58<sup>th</sup> IEEE Conf. on Decision and Control*, Nice, France, Dember 11 – 13, 2019.
- [C155] C. Gao, C. Seatzu, Z. Li, A. Giua, “Multiple attacks detection on discrete event systems”, *2019 IEEE Int. Conf. on Systems, Man, and Cybernetics*, Bari, Italy, October 6-9, 2019.
- [C156] C. Seatzu, “Modeling, analysis, and control of automated manufacturing systems using Petri nets”, *24<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, Zaragoza, Spain, September 10-13, 2019.
- [C157] K. Cai, A. Giua, C. Seatzu, “Consistent reduction in discrete event systems”, *15<sup>th</sup> IEEE Int. Conf. on Automation Science and Engineering*, Vancouver, Canada, August 22-26, 2019.
- [C158] S. Shivam, I. Buckley, Y. Wardi, C. Seatzu, M. Ederstedt, “Tracking control by the Newton-Raphson flow: Applications to autonomous vehicles”, *European Control Conference 2019*, Naple, Italy, April 25-28, 2019.
- [C159] G. Cavone, L. Blenkers, T.J.J. van den Boom, M. Dotoli, C. Seatzu, B. De Schutter, “Railway disruption: a bi-level rescheduling algorithm”, *6<sup>th</sup> Int. Conf. on Control, Decision and Information Technologies*, Paris, France, April 23-26, 2019.
- [C160] C. Gao, D. Lefebvre, C. Seatzu, Z. Li, A. Giua, “A region-based approach for state estimation of timed automata under no event observation”, *25<sup>th</sup> IEEE Int. Conf. on Emerging Technologies and Factory Automation*, Vienna, Austria, September 8-11, 2020.
- [C161] D. Lefebvre, C. Seatzu, C. Hadjicostis, A. Giua, “Probabilistic verification of attack detection using logical observer”, *15<sup>th</sup> Int. Work. on Discrete Event Systems*, Rio de Janeiro, Brasil, November 11-13, 2020.
- [C162] Q. Zhang, C. Seatzu, Z. Li, A. Giua, “Stealthy Sensor Attacks for Plants Modeled by Labeled Petri Nets”, *15<sup>th</sup> Int. Work. on Discrete Event Systems*, Rio de Janeiro, Brasil, November 11-13, 2020.
- [C163] H. Lan, Y. Tong, C. Seatzu, “Verification of infinite-step opacity using labeled Petri nets”, *15<sup>th</sup> Int. Work. on Discrete Event Systems*, Rio de Janeiro, Brasil, November 11-13, 2020.
- [C164] Y. Wardi, C. Seatzu, S. Shivam, “Application of an output tracking technique to formation control”, *29<sup>th</sup> Mediterranean Conf. on Control and Automation*, Bari, Italy, June 22-25, 2021.
- [C165] Y. Tong, J. Luo, C. Seatzu, “State estimation of discrete-event systems subject to intermittent and permanent loss of observations”, *60<sup>th</sup> IEEE Conf. on Decision and Control*, Austin, Texas, December 13-17, 2021.
- [C166] Z.A.Z. Sanai Dashti, D. Deplano, C. Seatzu, M. Franceschelli, “Resilient self-organizing networks in multi-agent systems via approximate random k-regular graphs”, *61<sup>st</sup> IEEE Conf. on Decision and Control*, Cancun, Mexico, December 6-9, 2022.
- [C167] Q. Zhang, C. Seatzu, Z.W. Li, A. Giua, “Sensor and Actuator Attacks in Discrete Event Systems”, *16<sup>th</sup> Int. Work. on Discrete Event Systems*, Prague, Czechia, October 7-8, 2022.
- [C168] T.Y. Liu, C. Seatzu, A. Giua, “Verification of Current State Opacity using Switching Output Automata”, *9<sup>th</sup> Int. Conf. on Control, Decision and Information Technologies*, Rome, Italy, July 3-6, 2023.
- [C169] D. Deplano, M. Franceschelli, C. Seatzu, “Experimental comparison of models of the drying-cooling process of flatbreads for optimized automated production: the case study of Carasau bread”, *9<sup>th</sup> Int. Conf. on Control, Decision and Information Technologies*, Rome, Italy, July 3-6, 2023.
- [C170] C. Gao, D. Lefebvre, C. Seatzu, Z.W. Li, A. Giua, “Fault Diagnosis of Timed Discrete Event Systems”, *22<sup>nd</sup> IFAC World Congress*, Yokohama, Japan, July 9-14, 2023.
- [C171] T.L. Kang, C. Seatzu, Z.W. Li, A. Giua, “Fault Diagnosis of Discrete Event Systems Under Attack”, *62<sup>nd</sup> IEEE Conf. on Decision and Control*, Singapore, December 13-15, 2023.
- [C172] D. Lefebvre, C. Seatzu, C.N. Hadjicostis, A. Giua, “Logical and probabilistic aspects of state estimation for Markovian systems”, *62<sup>nd</sup> IEEE Conf. on Decision and Control*, Singapore, December 13-15, 2023.
- [C173] Y. Tong, K. Cai, C. Seatzu, “Actuator attack mitigation using the detection-protection mechanism”, *17<sup>th</sup> Int. Work. on Discrete Event Systems*, Rio de Janeiro, Brasil, April 29-May 1, 2024.
- [C174] T. Liu, C. Seatzu, A. Giua, “Timed opacity verification for switching output automata”, *17<sup>th</sup> Int. Work. on Discrete Event Systems*, Rio de Janeiro, Brasil, April 29-May 1, 2024.

- [C175] C. Gao, D. Lefebvre, C. Seatzu, Z. Li, A. Giua, “Observer design for timed automata under no observation”, *17<sup>th</sup> Int. Work. on Discrete Event Systems*, Rio de Janeiro, Brasil, April 29-May 1, 2024.
- [C176] N. Ran, J. Hao, Z. He, M. Franceschelli, C. Seatzu, “Bisimulation non-interference analysis of bounded Petri nets”, *10<sup>th</sup> 2024 Int. Conf. on Control, Decision and Information Technologies*, July 1-4, 2024.
- [C177] T. Liu, C. Seatzu, F. Pascucci, G. Cavone, A. Giua, “ Security-by-design of smart water supply systems: a switching output automaton-based approach”, *2024 IEEE Int. Conference on Automation Science and Engineering*, August 28-September 1, 2024.
- [C178] Z. Ma, A. Giua, C. Seatzu, “Weakly harmful actuator-enabling attacks in discrete-event systems with unknown supervisors”, *2025 American Control Conference*, Denver, Colorado, (to appear).