

Publication list

Florin Stoican

January 30, 2024

Books and chapter books

- [B1] Diaconescu, S., **F. Stoican**, and B. D. Ciubotaru. “Tube Model Predictive Control for Flexible Satellite Dynamics”, in: *Advances in discrete dynamical systems, difference equations, and applications (ICDEA)*, pp. 1–16, **2023**.
PUBLISHED BY: Springer (233 Spring St., New York, NY 10013 USA).
- [B2] Mihai, Ș. S., **F. Stoican**, and B. D. Ciubotaru. “Explicit MPC solution using Hasse diagrams: construction, storage and retrieval”, in: *Advances in discrete dynamical systems, difference equations, and applications (ICDEA)*, pp. 1–16, **2023**.
PUBLISHED BY: Springer (233 Spring St., New York, NY 10013 USA).
- [B3] Prodan, I., **F. Stoican**, S. Olaru, and S.-I. Niculescu. *Mixed-integer representations in control design: Mathematical foundations and applications*, ISBN: 9783319269955; 9783319269931. In: *Springer-briefs in control, automation and robotics*, pp. 1–115, **2016**.
PUBLISHED BY: Springer (233 Spring St., New York, NY 10013 USA).
DOI: [10.1007/978-3-319-26995-5](https://doi.org/10.1007/978-3-319-26995-5). Wos: [000415981400008](https://www.worldscientific.com/doi/abs/10.1007/978-3-319-26995-5). EID: 2-s2.0-84994142931.
- [B4] **Stoican, F.**, C. Oara, and M. Hovd. “RPI approximations of the mRPI set characterizing linear dynamics with zonotopic disturbances”, ISBN: 9783319266855. In: *Developments in model-based optimization and control: distributed control and industrial applications* Lecture notes in control and information sciences, pp. 361–377, **2015**.
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DOI: [10.1007/978-3-319-26687-9_17](https://doi.org/10.1007/978-3-319-26687-9_17). Wos: [000369162800019](https://www.worldscientific.com/doi/abs/10.1007/978-3-319-26687-9_17). EID: 2-s2.0-84954169584.
- [B5] Prodan, I., **F. Stoican**, S. Olaru, C. Stoica, and S.-I. Niculescu. “Mixed-Integer Programming Techniques in Distributed MPC Problems”, ISBN: 9789400770058. In: *Intelligent systems, control and automation: science and engineering*, pp. 275–291, **2014**.
PUBLISHED BY: Kluwer Academic.
DOI: [10.1007/978-94-007-7006-5_17](https://doi.org/10.1007/978-94-007-7006-5_17). EID: 2-s2.0-84896528456.
- [B6] **Stoican, F.** and S. Olaru. *Set-theoretic Fault-tolerant Control in Multisensor Systems*, ISBN: 9781848215658; 9781118649428. In: *Automation - control and industrial engineering series*, pp. 1–152, **2013**.
PUBLISHED BY: Wiley-Blackwell (111 River st., Hoboken 07030-5774, NJ, USA).
DOI: [10.1002/9781118649428](https://doi.org/10.1002/9781118649428). Wos: [000327043800009](https://www.worldscientific.com/doi/abs/10.1002/9781118649428). EID: 2-s2.0-85014342801.

Journal papers

- [J1] Irofti, P., L. Romero-Ben, **F. Stoican**, and V. Puig. “Learning Dictionaries From Physical-Based Interpolation for Water Network Leak Localization”. In: *IEEE Transactions on Control Systems Technology*, pp. 1–12, **2024**. ISSN: 1063-6536.
PUBLISHED BY: IEEE
AIS: 1.454. Q1-AIS (Automation & Control Systems - 16/82).
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- [J2] Popescu, D., L. Ichim, and **F. Stoican**. “Orchard monitoring based on unmanned aerial vehicles and image processing by artificial neural networks: a systematic review”. In: *Frontiers in Plant Science*, **2023**. ISSN: 1664-462X.
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- [J3] Ciubotaru, B. D., A. Sperila, S. Diaconescu, **F. Stoican**, A. M. Stoica, and S. Bennani. “Satellite micro-launcher control: An integrated adaptive-robust and nonlinear approach”. In: *Control Engineering Practice*, **2022**. ISSN: 0967-0661.
PUBLISHED BY: Elsevier (The Boulevard, Langford Lane, Kidlington, Oxford, Oxon, England)
AIS: **0.889**. **Q2-AIS** (Automation & Control Systems - 18/65); **Q2-AIS** (Engineering, Electrical & Electronic - 78/275).
DOI: [10.1016/j.conengprac.2022.105072](https://doi.org/10.1016/j.conengprac.2022.105072). Wos: 000796711000008.
- [J4] Ioan, D., I. Prodan, S. Olaru, **F. Stoican**, and S.-I. Niculescu. “Mixed-integer programming in motion planning”. In: *Annual Reviews in Control*, pp. 65–87, **2021**. ISSN: 1367-5788.
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- [J5] Irofti, P., **F. Stoican**, and V. Puig. “Fault Handling in Large Water Networks with Online Dictionary Learning”. In: *International Journal of Process Control*, pp. 46–57, **2020**. ISSN: 0959-1524.
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AIS: **0.792**. **Q1-AIS** (Automation & Control Systems - 31/65); **Q1-AIS** (Engineering, Chemical - 28/142).
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- [J6] Popescu, D., **F. Stoican**, G. Stamatescu, L. Ichim, and C. Dragana. “Advanced UAV–WSN System for Intelligent Monitoring in Precision Agriculture”. In: *Sensors*, p. 817, **2020**. ISSN: 1424-8220.
PUBLISHED BY: MDPI (St. Alban-Anlage 66, CH-4052 Basel, Switzerland)
AIS: **0.608**. **Q2-AIS** (Chemistry, Analytical - 27/86); **Q2** (Engineering, Electrical & Electronic - 120/275); **Q2** (Instruments & Instrumentation - 22/63).
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- [J7] Ioan, D., S. Olaru, I. Prodan, **F. Stoican**, and S.-I. Niculescu. “From Obstacle-Based Space Partitioning to Corridors and Path Planning. A Convex Lifting Approach”. In: *IEEE Control Systems Letters*, pp. 79–84, **2019**.
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AIS: **1.199**. no classification.
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- [J8] Popescu, D., **F. Stoican**, G. Stamatescu, O. Chenaru, and L. Ichim. “A Survey of Collaborative UAV-WSN Systems for Efficient Monitoring”. In: *Sensors*, **2019**. ISSN: 1424-8220.
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DOI: [10.3390/s19214690](https://doi.org/10.3390/s19214690). Wos: 000498834000087.
- [J9] **Stoican, F.** and P. Irofti. “Aiding Dictionary Learning Through Multi-Parametric Sparse Representation”. In: *Algorithms*, pp. 131–148, **2019**. ISSN: 1999-4893.
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- [J11] **Stoican, F.**, I. Prodan, and E. I. Grotli. “Exact and overapproximated guarantees for corner cutting avoidance in a multiobstacle environment”. In: *International Journal of Robust and Nonlinear Control*, pp. 4528–4548, **2018**. ISSN: 1049-8923.
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- [J12] Popescu, D., L. Ichim, and **F. Stoican**. “Unmanned aerial vehicle systems for remote estimation of flooded areas based on complex image processing”. In: *Sensors*, pp. 1–24, **2017**. ISSN: 1424-8220.
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- [J19] **Stoican, F.**, S. Oлару, M. M. Seron, and J. A. De Dona. “A fault tolerant control scheme based on sensor-actuation channel switching and dwell time”. In: *International Journal of Robust and Nonlinear Control*, pp. 775–792, **2014**. ISSN: 1049-8923.
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- [J23] **Stoican, F.**, S. Oлару, M. M. Seron, and J. A. De Dona. “Reference governor design for tracking problems with fault detection guarantees”. In: *International Journal of Process Control*, pp. 829–836, **2012**. ISSN: 0959-1524.
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- [J24] Oлару, S., J. A. De Dona, M. M. Seron, and **F. Stoican**. “Positive invariant sets for fault tolerant multisensor control schemes”. In: *International Journal of Control*, pp. 2622–2640, **2010**. ISSN: 0020-7179.
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AIS: **0.619**. **Q3-AIS** (Automation & Control Systems - 37/65).
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Conference papers

- [C1] Gheorghe, B., **F. Stoican**, and I. Prodan. “A variable terminal set NMPC construction: application to multicopter stabilisation”, pp. 1–6. In: *The 2023 European Control Conference, Bucharest, Romania, Jun 13-16*. **2023**.
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- [C2] Gheorghe, B., **F. Stoican**, and I. Prodan. “On Complexity Reduction in a Variable Terminal Set Setpoint-Tracking MPC Scheme”, pp. 5682–5687. In: *62nd IEEE Conference on Decision and Control (CDC)*. **2023**.
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- [C3] Marguet, V., **F. Stoican**, and I. Prodan. “On the application of the Schoenberg quasi-interpolant for complexity reduction in trajectory generation”, pp. 1–6. In: *The 2023 European Control Conference, Bucharest, Romania, Jun 13-16. 2023*. DOI: [10.23919/ECC57647.2023.10178175](https://doi.org/10.23919/ECC57647.2023.10178175). Wos: 001035589000060.
- [C4] Mihai, S. S., **F. Stoican**, and B. D. Ciubotaru. “Computing the explicit MPC solution using the Hasse diagram of the lifted feasible domain”, pp. 1–6. In: *The 2023 European Control Conference, Bucharest, Romania, Jun 13-16. 2023*. DOI: [10.23919/ECC57647.2023.10178152](https://doi.org/10.23919/ECC57647.2023.10178152). Wos: 001035589000037.
- [C5] Nicu, T.-G., **F. Stoican**, and I. Prodan. “Smooth approximation of polyhedral potential field in NMPC for obstacle avoidance”, pp. 1–6. In: *The 2023 European Control Conference, Bucharest, Romania, Jun 13-16. 2023*. DOI: [10.23919/ECC57647.2023.10178410](https://doi.org/10.23919/ECC57647.2023.10178410). Wos: 001035589000295.
- [C6] **Stoican, F.**, J. Culita, and S. Olaru. “Set-theoretic fault-diagnosis for a nonlinear real-world fluidic benchmark”, pp. 1–6. In: *The 2023 European Control Conference, Bucharest, Romania, Jun 13-16. 2023*. DOI: [10.23919/ECC57647.2023.10178147](https://doi.org/10.23919/ECC57647.2023.10178147). Wos: 001035589000032.
- [C7] Do, H. T., F. Nicolau, **F. Stoican**, and I. Prodan. “Tracking control for a flat system under disturbances: a fixed-wing UAV example”, pp. 406–411. In: *18th IFAC Workshop on Control Applications of Optimization (CAO), Gif sur Yvette, FRANCE, Jul 18-22. 2022*. DOI: [10.1016/j.ifacol.2022.09.058](https://doi.org/10.1016/j.ifacol.2022.09.058). Wos: 000855235100067.
- [C8] Florea, A. G., **F. Stoican**, C. Buiu, and C. Oara. “3D Pose Estimation of Custom Objects Using Synthetic Datasets”, pp. 649–655. In: *26th International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, Oct 19-21. 2022*. DOI: [10.1109/ICSTCC55426.2022.9931890](https://doi.org/10.1109/ICSTCC55426.2022.9931890). Wos: 000889980600109.
- [C9] Irofti, P., L. Romero-Ben, **F. Stoican**, and V. Puig. “Data-driven Leak Localization in Water Distribution Networks via Dictionary Learning and Graph-based Interpolation”, pp. 1265–1270. In: *2022 IEEE Conference on Control Technology and Applications (CCTA). 2022*. DOI: [10.1109/CCTA49430.2022.9966160](https://doi.org/10.1109/CCTA49430.2022.9966160).
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- [C12] **Stoican, F.**, T.-G. Nicu, and I. Prodan. “A mixed-integer MPC with polyhedral potential field cost for obstacle avoidance”, pp. 2039–2044. In: *American Control Conference (ACC), Atlanta, GA, Jun 08-10. 2022*. DOI: [10.23919/ACC53348.2022.9867148](https://doi.org/10.23919/ACC53348.2022.9867148). Wos: 000865458701147.
- [C13] Do, H.-T., I. Prodan, and **F. Stoican**. “Analysis of alternative flat representations of a UAV for trajectory generation and tracking”, pp. 58–63. In: *25th International Conference on System Theory, Control and Computing (ICSTCC), Iasi, Romania, Oct 20-23. 2021*. DOI: [10.1109/ICSTCC52150.2021.9607073](https://doi.org/10.1109/ICSTCC52150.2021.9607073). Wos: 000859487900010.
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