

List of Publications*

Bart De Schutter

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1 Books

- [B1] Y. Wang, B. Ning, T. van den Boom, and B. De Schutter, *Optimal Trajectory Planning and Train Scheduling for Urban Rail Transit Systems. Advances in Industrial Control*, Switzerland: Springer, ISBN 978-3-319-30888-3, 180 pp., 2016.
- [B2] L. Buşoniu, R. Babuška, B. De Schutter, and D. Ernst, *Reinforcement Learning and Dynamic Programming Using Function Approximators*. Boca Raton, Florida: CRC Press, ISBN 978-1-4398-2108-4, 270 pp., 2010.
- [B3] Zs. Lendek, T.M. Guerra, R. Babuška, and B. De Schutter, *Stability Analysis and Nonlinear Observer Design Using Takagi-Sugeno Fuzzy Models*. vol. 262 of *Studies in Fuzziness and Soft Computing*, Berlin, Germany: Springer, ISBN 978-3-642-16775-1, 196 pp., 2010.

2 Edited books

- [E1] M. Heemels, B. De Schutter, and M. Lazar (eds.), *Proceedings of the 4th IFAC Conference on Analysis and Design of Hybrid Systems (ADHS 12)*. Eindhoven, The Netherlands, ISBN 978-3-902823-00-7, 452 pp., June 2012.

*See <https://pub.deschutter.info/> for the most up-to-date list of my publications.

3 International journal papers (published or accepted)

- [J1] J. Lago, K. Poplavskaia, G. Suryanarayana, and B. De Schutter, “A market framework for grid balancing support through imbalances trading,” *Renewable and Sustainable Energy Reviews*, vol. 137, Mar. 2021. Article 110467.
- [J2] J. Xu, T. van den Boom, and B. De Schutter, “Optimistic optimization for continuous nonconvex piecewise affine functions,” *Automatica*, Mar. 2021. Article 109476.
- [J3] J. Fu, G. Song, and B. De Schutter, “Influence of measurement uncertainty on parameter estimation and fault location for transmission lines,” *IEEE Transactions on Automation Science and Engineering*, vol. 18, no. 1, pp. 337–345, Jan. 2021.
- [J4] G. Cavone, T. van den Boom, L. Blenkens, M. Dotoli, C. Seatzu, and B. De Schutter, “An MPC-based rescheduling algorithm for disruptions and disturbances in large-scale railway networks,” *IEEE Transactions on Automation Science and Engineering*, 2021. To appear.
- [J5] J. Fu, A. Núñez, and B. De Schutter, “A short-term preventive maintenance scheduling method for distribution networks with distributed generators and batteries,” *IEEE Transactions on Power Systems*, 2021. To appear.
- [J6] D. Li and B. De Schutter, “Distributed model-free adaptive predictive control for urban traffic network,” *IEEE Transactions on Control Systems Technology*, 2021. To appear.
- [J7] S. Lin and B. De Schutter, “Controller design for stabilizing bilinear systems with state-based switching,” *Nonlinear Analysis: Hybrid Systems*, 2021. To appear.
- [J8] U. Todorović, J.R.D. Frejo, and B. De Schutter, “Distributed MPC for large freeway networks using alternating optimization,” *IEEE Transactions on Intelligent Transportation Systems*, 2021. To appear.
- [J9] D. Yue, S. Baldi, J. Cao, Q. Li, and B. De Schutter, “A directed spanning tree adaptive control solution to time-varying formations,” *IEEE Transactions on Control of Network Systems*, 2021. To appear.
- [J10] X. Luan, B. De Schutter, L. Meng, and F. Corman, “Decomposition and distributed optimization of real-time traffic management for large-scale railway networks,” *Transportation Research Part B*, vol. 141, pp. 72–97, Nov. 2020.
- [J11] T. Pippia, J. Sijs, and B. De Schutter, “A single-level rule-based model predictive control approach for energy management of grid-connected microgrids,” *IEEE Transactions on Control Systems Technology*, vol. 28, no. 6, pp. 2364–2376, Nov. 2020.
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