

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] F. Alavi, N. van de Wouw, and B. De Schutter, “Power scheduling of fuel cell cars in an islanded mode microgrid with private driving patterns,” *IEEE Transactions on Control Systems Technology*, vol. 28, no. 4, pp. 1393–1403, July 2020.
- [J2] C. Portilla, J. Espinosa, and B. De Schutter, “A multi-class urban traffic model considering heterogeneous vehicle composition: An extension of the S model,” *Transportation Research Part C*, vol. 115, June 2020. Article 102613.
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- [J5] T.J.J. van den Boom, J. Xu, and B. De Schutter, “Corrections to “Model predictive control for stochastic max-plus linear systems with chance constraints”, [IEEE Trans. on Aut. Control, 64(1): 337–342, 2019],” *IEEE Transactions on Automatic Control*, vol. 65, no. 2, pp. 905–906, Feb. 2020.
- [J6] J.R.D. Frejo and B. De Schutter, “Logic-based traffic flow control for ramp metering and variable speed limits – Part 1: Controller,” *IEEE Transactions on Intelligent Transportation Systems*, 2020. To appear.
- [J7] J.R.D. Frejo and B. De Schutter, “Logic-based traffic flow control for ramp metering and variable speed limits – Part 2: Simulation and comparison,” *IEEE Transactions on Intelligent Transportation Systems*, 2020. To appear.
- [J8] 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*, 2020.
- [J9] J. Lago, G. Suryanarayana, E. Sogancioglu, and B. De Schutter, “Optimal control strategies for seasonal thermal energy storage systems with market interaction,” *IEEE Transactions on Control Systems Technology*, 2020. To appear.
- [J10] S. Lin, D. Li, and B. De Schutter, “Optimizing the performance of the feedback controller for state-based switching bilinear systems,” *Optimal Control Applications and Methods*, 2020.
- [J11] M. Lv, B. De Schutter, W. Yu, and S. Baldi, “Adaptive asymptotic tracking for a class of uncertain switched positive compartmental models with application to anesthesia,” *IEEE Transactions on Systems, Man and Cybernetics: Systems*, 2020. To appear.
- [J12] 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*, 2020. To appear.
- [J13] N. Sapountzoglou, J. Lago, B. De Schutter, and B. Raison, “A generalizable and sensor-independent deep learning method for fault detection and location in low-voltage distribution grids,” *Applied Energy*, vol. 276, 2020. Article 115299.
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- [J17] N. Wu, D. Li, Y. Xi, and B. De Schutter, “Distributed event-triggered model predictive control for urban traffic lights,” *IEEE Transactions on Intelligent Transportation Systems*, 2020. To appear.
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