

List of Publications*

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

3 International journal papers (published or accepted)

- [J1] E. Lo Cascio, B. De Schutter, and C. Schenone, “Flexible energy harvesting from natural gas distribution networks through line-bagging,” *Applied Energy*, vol. 229, pp. 253–263, Nov. 2018.
- [J2] A. Jamshidi, S. Hajizadeh, Z. Su, M. Naeimi, A. Núñez, R. Dollevoet, B. De Schutter, and Z. Li, “A decision support approach for condition-based maintenance of rails based on big data analysis,” *Transportation Research Part C*, vol. 95, pp. 185–206, Oct. 2018.
- [J3] J. Lago, K. De Brabandere, F. De Ridder, and B. De Schutter, “Short-term forecasting of solar irradiance without local telemetry: A generalized model using satellite data,” *Solar Energy*, vol. 173, pp. 566–577, Oct. 2018.
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- [J5] X. Luan, Y. Wang, B. De Schutter, L. Meng, G. Lodewijks, and F. Corman, “Integration of real-time traffic management and train control for rail networks – Part 1: Optimization problems and solution approaches,” *Transportation Research Part B*, vol. 115, pp. 41–71, Sept. 2018.
- [J6] J. Lago, F. De Ridder, and B. De Schutter, “Forecasting spot electricity prices: Deep learning approaches and empirical comparison of traditional algorithms,” *Applied Energy*, vol. 221, pp. 386–405, July 2018.
- [J7] A. Jamshidnejad, I. Papamichail, M. Papageorgiou, and B. De Schutter, “Sustainable model-predictive control in urban traffic networks: Efficient solution based on general smoothing methods,” *IEEE Transactions on Control Systems Technology*, vol. 26, no. 3, pp. 813–827, May 2018.
- [J8] R. Luo, T.J.J. van den Boom, and B. De Schutter, “Multi-agent dynamic routing of a fleet of cybercars,” *IEEE Transactions on Intelligent Transportation Systems*, vol. 19, pp. 1340–1352, May 2018.
- [J9] M. Burger, Z. Su, and B. De Schutter, “A node current-based 2-index formulation for the fixed-destination multi-depot travelling salesman problem,” *European Journal of Operational Research*, vol. 265, no. 2, pp. 463–477, Mar. 2018.
- [J10] S. Yuan, B. De Schutter, and S. Baldi, “Robust adaptive tracking control of uncertain slowly switched linear systems,” *Nonlinear Analysis: Hybrid Systems*, vol. 27, pp. 1–12, Feb. 2018.
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- [J12] J.R.D. Frejo and B. De Schutter, “Feed-forward ALINEA: A ramp metering control algorithm for nearby and distant bottlenecks,” *IEEE Transactions on Intelligent Transportation Systems*, 2018. To appear.
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- [J15] J. Lago, F. De Ridder, P. Vranx, and B. De Schutter, “Forecasting day-ahead electricity prices in Europe: The importance of considering market integration,” *Applied Energy*, vol. 211, pp. 890–903, 2018.
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