

**PUBLICATIONS of STÉPHANE LAFORTUNE**  
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**Books**

- B4 C. G. Cassandras and S. Lafortune, *Introduction to Discrete Event Systems - Third Edition*, Springer, 2021. (In production)
- B3 C. G. Cassandras and S. Lafortune, *Introduction to Discrete Event Systems - Second Edition*, Springer, 2008. ISBN 978-0-387-33332-8. (771+xxiii pages)
- B2 S. Lafortune, F. Lin, and D. Tilbury, Editors, *Proceedings of the 8th International Workshop on Discrete Event Systems - WODES'06*, July 10-12, 2006, Ann Arbor, Michigan, USA. IEEE.
- B1 C. G. Cassandras and S. Lafortune, *Introduction to Discrete Event Systems*, Kluwer Academic Publishers, 1999. ISBN 0-7923-8609-4. (823+xxii pages)

**Articles in refereed publications (journals or transactions)**

- J119 Y. Ji, X. Yin, and S. Lafortune “Local Mean Payoff Supervisory Control for Discrete Event Systems,” *IEEE Transactions on Automatic Control*. In print.
- J118 R. Meira-Góes, H. Marchand, and S. Lafortune, “Synthesis of Supervisors Robust Against Sensor Deception Attacks,” *IEEE Transactions on Automatic Control*. In print.
- J117 C. Keroglou and S. Lafortune, “Embedded Insertion Functions for Opacity Enforcement,” *IEEE Transactions on Automatic Control*. In print.
- J116 S. Mohajerani, R. Malik, A. Wintenberg, S. Lafortune, and N. Ozay, “Divergent Stutter Bisimulation Abstraction for Controller Synthesis with Linear Temporal Logic Specifications,” *Automatica*. Vol. 130, Article 109723, August 2021. (10 pages)
- J115 C. Hadjicostis and S. Lafortune, “Editorial - Thirty years of J-DEDS: moving on with new leadership.” *Discrete Event Dynamic Systems: Theory and Applications*. Vol. 31, No. 1, March 2021, pp. 1-3.
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- J112 R. Meira Góes, E. Kang, R. Kwong, and S. Lafortune, “Synthesis of Sensor Deception Attacks at the Supervisory Layer of Cyber-Physical Systems,” *Automatica*. Vol. 121, Article 109172, November 2020. (11 pages)

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- O27 B.C. Rawlings, V. Avadiappan, S. Lafortune, C.T. Maravelias, J.M. Wassick, "Accounting for the Automation System When Scheduling Chemical Plant Operations," *2018 INFORMS Annual Meeting*, November 2018.

- O26 V. Avadiappan, B.C. Rawlings, C.T. Maravelias, S. Lafortune, J.M. Wassick, W. Edsall, A. Kelloway, B. Lin, N.N. Nandola, and M. Hakenberg, "Integration of Automation Logic and Scheduling for Real-time Batch Chemical Plant Optimization," *Annual Meeting of the American Institute of Chemical Engineers*, October 2018.
- O25 S. Lafortune, K. Rudie, and S. Tripakis, "Thirty Years of the Ramadge-Wonham Theory of Supervisory Control: A Retrospective and Future Perspectives [Conference Reports]," *IEEE Control Systems*, Vol. 38, No. 4, August 2018, pp. 111-112.
- O24 Y.-C. Wu and S. Lafortune, "Enforcement of Opacity by Judicious Event Insertions." Invited presentation at the *Workshop in Honor of the 70th Birthday of Peter Caines*, Carleton University, Ottawa, May 28, 2015.
- O23 K. Chatterjee, S. Lafortune, N. Markey, and W. Thomas, Eds., "Non-Zero-Sum Games and Control (Dagstuhl Seminar 15061)," *Dagstuhl Reports*, Vol. 15, No. 2, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, Dagstuhl, Germany, 2015.
- O22 Y. Wang, S. Lafortune, and S. Reveliotis, "The Application of Discrete Event Systems Theory to Concurrency Bug Elimination." Abstract presented at the *9th IEEE International Conference on Automation Science and Engineering (CASE 2013)*, August 2013.
- O21 S. Lafortune, "Synthesis of Run-time Controllers for Software Execution." Presentation at Special Session at the *2013 American Control Conference*, June 2013.
- O20 S. Lafortune, "Monitoring and Control of Discrete Event Systems: Some Key Results and Recent Research." Invited plenary lecture presented at the *Brazilian Conference on Automation*, Juiz de Fora, Brazil, September 2008.
- O19 S. Lafortune, "Diagnostic des Systèmes à Événements Discrets – L'approche "Diagnosticqueur": Passé, Présent, Futur." Invited plenary lecture presented at the international workshop *Modélisation des Systèmes Réactifs* – MSR 2007, October 17-19, Lyon, France.
- O18 S. Lafortune, "From Decentralized to Distributed Control of Partially-Observed Discrete-Event Systems: A Critical Review of the State of the Art." Invited presentation at the *Special CASY Workshop on "Advances in Control Theory and Applications"* held at the University of Bologna Residential Centre of Bertinoro, Italy, May 22-26, 2006.
- O17 S. Lafortune, "Decentralized Supervisory Control of Discrete Event Systems." In *Collection of Abstracts 05241, Proceedings of Dagstuhl Seminar on Synthesis and Planning*, H. Kautz, W. Thomas, and M. Vardi, Eds., Internationales Begegnungs- und Forschungszentrum (IBFI), Schloss Dagstuhl, Germany, 2006. Available at <http://drops.dagstuhl.de/opus/volltexte/2006/453>. (Invited participant and speaker at seminar which took place June 13-17, 2005.)
- O16 S. Lafortune and S. Genc, "A Distributed Algorithm for On-line Fault Detection and Isolation." Invited presentation at the *International Colloquium for the 25th Anniversary of GERAD: Groupe d'études et de recherche en analyse des décisions*, University of Montréal, May 12-13, 2005.
- O15 Y. Wang, S. Lafortune, and T.-S. Yoo, "Decentralized Architectures for Diagnosis and Control of Discrete-Event Systems." Invited presentation at the *Workshop in Honor of the 60th Birthday of Peter Caines*, McGill University, Montréal, May 13, 2005.



- O14 K. Rohloff and S. Lafortune, "The Verification and Control of Interacting Similar Discrete-Event Systems." Presented at the *BIRS Workshop on Decentralized Discrete Event Systems: Structure, Communication and Control*, held at the Banff International Research Station, Banff Centre, Canada, May 13-15, 2004.
- O13 T.-S. Yoo and S. Lafortune, "Decentralized Supervisory Control with Conditional Decisions." Invited presentation at the *Second Canada-USA (CANUSA) Workshop on Discrete Event Systems*, held in Kingston, Canada, June 13-14, 2002.
- O12 T.-S. Yoo and S. Lafortune, "Centralized and Decentralized Control of Partially-Observed Discrete-Event Systems: The State of the Art and Some New Results." Invited lecture presented at the *ARO Workshop 2000 on Intelligent Systems*, sponsored by the Army Research Office, 8-9 December 2000, The Australian National University, Canberra, Australia.
- O11 S. Lafortune and M. Sampath, "A Discrete Event Systems Approach to Failure Diagnosis: Theory & Applications." Invited plenary lecture presented at *DX-00: International Workshop on Principles of Diagnosis*, Morelia, Mexico, June 8-10, 2000.
- O10 I. Porche and S. Lafortune, "Why Adaptive Signal Control is Critical in an ATIS Environment," *CORS/INFORMS Spring 1998 Conference*, April 26-29, Montréal, Canada. (Abstract in Final Program.)
- O9 S. Lafortune, "Failure Diagnosis of Discrete Event Systems." Invited plenary lecture at the *1996 International Workshop on Discrete Event Systems - WODES'06*, Edinburgh, Scotland, August 19-21.
- O8 R. Sengupta and S. Lafortune, "Optimal control of stochastic discrete event systems." Presented at the *1996 Conference on the Mathematical Theory of Networks and Systems (MTNS)*, June 24-26, St. Louis.
- O7 S. L. Chung, S. Lafortune and F. Lin, "Control of discrete event systems using limited lookahead policies." In *Book of Abstracts, 1992 SIAM Conference on Control and its Applications*, Minneapolis, MN, September 17-19, 1992. (Invited presentation.)
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- O5 S. Lafortune and E. Chen, "Supervisory control of discrete event systems with blocking." In *Book of Abstracts, SIAM Conference on Control in the 90's*, p. A62, San Francisco, CA, May 17-19, 1989.
- O4 S. Lafortune and E. Chen, "On relational algebra and discrete event systems." In *Book of Abstracts, Optimization Days*, p. D4.1, Montréal, Canada, May 4-5, 1989. (Invited presentation.)
- O3 S. Lafortune and E. Wong, "A new locking protocol that achieves all serializable executions." Presented at the *Seventh Annual Conference of the Industrial Liaison Program*, College of Engineering, University of California at Berkeley, March 13-14, 1985.
- O2 P. E. Caines and S. Lafortune, "Recursive identification with e-optimal adaptive control of stochastic linear systems." In *Book of Abstracts, Optimization Days*, pp. 78-79, Montréal, Canada, May 13-14, 1982.

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