

PUBLICATIONS: J A Rossiter

Refereed Journals

1. [J] PLC implementation of an auto-tuned predictive control based on minimal plant information, G. Valencia-Palomoa, **J.A. Rossiter**, accepted by ISA Transactions
2. [J] Data-Driven Latent-Variable Model-Based Predictive Control for Continuous Processes, D. Lauri, **J.A. Rossiter**, J. Sanchis, M. Martinez, Journal of Process Control, 2010, Vol. 20, Issue, 10, 1207-1219
3. [J] Conditions for which MPC converges to the correct target L.R.E. Shead, K.R. Muske and **J.A. Rossiter**, Journal of Process Control, 2010, Vol. 20, Issue, 10, pp1243-1251
4. [P] Interpolation methods in MPC: an overview, Y. Ding and **J.A. Rossiter**, IJC, Vol. 83, No. 2, 2010, 297312
5. [P] Efficient algorithms for trading off feasibility and performance in predictive control, **J. A. Rossiter**, L. Wang, G. Valencia-Palomo, IJC, 83,4,789, 2010
6. Widening participation and its impact: the mathematical background of students from a vocational educational programme, M Hobson and J.A. Rossiter, MSOR Connections, Vol 9, No.4, 2009, pp32-36
7. [J] Using student generated audio to enhance learning **J.A. Rossiter**, A. Nortcliffe, A. Griffin and A. Middleton, Engineering Education Journal, 2009, 4, 2,52-61
8. [J] Discussion on: Min-max Model Predictive Control of Nonlinear Systems: A Unifying Overview on Stability, European Journal of Control, J. Maciejowski, and **J.A. Rossiter**, 15, 1, pp 22-28, 2009
9. [P] Barriers and enablers to implementing mathematics and statistics support, **J.A. Rossiter**, MSOR Connections, Vol 8, No. 2, pp33-37, 2008
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15. [P] Using interpolation to improve efficiency of multiparametric predictive control, **J.A. Rossiter** and P. Grieder, 2005, Automatica, 41, 4
16. [P] Interpolation based computationally efficient predictive control, **J.A. Rossiter**, B. Kouvaritakis, M. Bacic, 2004, IJC, 77,3, 290-301
17. [P] Stable prediction for unstable independent models, **J.A. Rossiter**, IEEE Trans AC, 2003, 48, 11, pp2029-2035
18. [J] A data driven subspace approach to predictive controller design, R. Kadali, B. Huang and **J.A. Rossiter**, Control Engineering Practice, 2003, 11, 3, 261-278

19. [J] Who needs QP for linear MPC anyway, B. Kouvaritakis, M. Cannon and **J.A. Rossiter**, 2002 *Automatica*, 38 (pp. 879-884).
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55. [P] Constrained generalized predictive control, **J.A. Rossiter** and B.Kouvaritakis, 1993, Proc IEE Pt.D, Vol.140, No.4, pp243-254
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1. Encouraging engagement with mathematics through course change and additional support C. Patel, J.A.Rossiter, MEE, 2011 (Loughborough)
2. Modeling and Fault Detecting for Hybrid Industrial Systems, E. Al-Hajri and J.A. Rossiter, Annual International Conference on Control, Automation and Robotics CAR 2011 (Singapore)
3. Alternative parameterisations for predictive control: how and why?, Guillermo Valencia-Palomo, J.A. Rossiter, R. Gondalekhar, C. Jones and B. Khan, ACC 2011
4. Triple mode MPC or Laguerre MPC: a comparison, B. Khan and J.A. Rossiter, ACC 2011
5. Yihang Ding, J. Anthony Rossiter, New Comparisons and Overview of Interpolation Methods for the Uncertain Case, ICCA, 2010
6. Using Laguerre functions to improve efficiency of multi-parametric predictive control, Guillermo Valencia-Palomo and J.A. Rossiter, ACC 2010
7. A move-blocking strategy to improve tracking in predictive control, Guillermo Valencia-Palomo and J.A. Rossiter, ACC 2010
8. A Unified Frame Work for Oil Producing Stations Using Petri Nets, Eid Al Hajri Hasan and J.A. Rossiter, UKACC 2010
9. Prediction Model for testing Conflict Detection and Resolution Algorithms for Air Traffic Management, Saam Hasan and J.A. Rossiter, UKACC 2010
10. Facilitating independent learning of control basics, J.A. Rossiter, UKACC 2010
11. PLC implementation of a predictive controller using Laguerre functions and multi-parametric solutions, Guillermo Valencia-Palomo and J.A. Rossiter, UKACC 2010
12. Integrated curriculum for control and systems engineering, J.A. Rossiter, UKACC 2010
13. Using MATLAB for teaching control design and analysis, J.A. Rossiter, UKACC 2010
14. John Rossiter, Anne Nortcliffe and Andrew Middleton Using audio to support student learning, EE 2010
15. John Anthony Rossiter and Linda Gray, Supporting development of independent learning skills, EE2010

16. Efficient suboptimal parametric implementations for predictive control, G. Valencia-Palomo, J.A. Rossiter, NOLCOS 2010
17. [J] Enhanced interpreted petri nets for industrial processes, E. Al-Hajri and **J.A. Rossiter**, 4th IFAC workshop on discrete event system design (DESDes), 2009
18. [J] A Youla Parameter Approach to Robust Constrained Linear Model Predictive Control, Q. Cheng, B. Kouvaritakis, M. Cannon, **J.A. Rossiter**, CDC 2009
19. [J] A workshop on using audio devices to improve student learning, **J.A. Rossiter**, A. Nortcliffe, A. Middleton, STEM PRM Symposium, Loughborough, 2009
20. [J] Students using digital audio interventions to enhance their learning experience, A. Nortcliffe, **J.A. Rossiter**, A. Middleton, HEA annual conference, 2009
21. [P] Feed forward design in MPC, **J.A. Rossiter** and G. Valencia-Palomo, ECC, 2009
22. [P] Peer assessment and games to enhance student learning of frequency response methods, **J.A. Rossiter**, ECC, 2009
23. [J] Predictive control implementation in a PLC using the IEC 1131.3 programming standard, G. Valencia-Palomo, K. Hilton and **J.A. Rossiter**, ECC, 2009
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25. [J] Curriculum design for learning in a systems engineering department, **J.A. Rossiter** and L. Gray, Blended learning conference, 2009
26. [J] Auto-tuned Predictive Control Based on Minimal Plant Information, G. Valenica Palomo and **J.A. Rossiter**, ADCHEM 2009
27. [J] Widening Participation and its Impact: The Mathematical Background of Students from a Vocational Educational Programme, M. Hobson and **J.A. Rossiter**, CETL-MSOR (Lancaster), 2008
28. [P] Team approaches to curriculum design and delivery, **J.A. Rossiter** and L Gray, ALOE, 2008
29. [P] MPC and tracking of oscillatory targets, L. Wang and **J.A. Rossiter**, CDC 2008
30. [P] Exploiting Laguerre functions to improve the feasibility/performance compromise in MPC, **J.A. Rossiter** and L Wang, CDC 2008
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33. [P] Typical control curricula and using software for teaching/assessment: a UK perspective, **J. A. Rossiter**, D. Giaouris, R. Mitchell, P. McKenna, IFAC world congress, 2008
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51. [J] Review of nonsquare MPC: tracking, Leo Shead, **J. A. Rossiter**, ECC, 2007
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65. [J] Engaging engineers in learning, **J.A. Rossiter** and A.C. Croft, HEA annual conference, Edinburgh, 2005
66. [J] (Semi-plenary) The potential of interpolation for simplifying predictive control and application to LPV systems, **J.A. Rossiter** and B. Pluymers, Workshop on NMPC, Stuttgart, 2005
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83. [P] Using WebCT to aid learning in engineering, Spotlight conference, **J.A. Rossiter**, Sheffield, May 18-19, 2004
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89. [P] Stability proof for computationally efficient predictive control in the uncertain case **J.A. Rossiter**, B. Kouvaritakis, M. Cannon, ACC03
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91. [P] Handling constraints with predictive functional control of unstable processes, **J.A. Rossiter** and J. Richalet, ACC2002
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