Refereed Journals

1. [J] PLC implementation of an auto-tuned predictive control based on minimal plant information, G. Valencia-Palomo, J.A. Rossiter, accepted by ISA Transactions


64. [J] Role of input weighting and bounding in the characteristic GPC method, B. Kouvaritakis and J.A. Rossiter, 1990, IJC, Vol. 51 No. 2, pp391-419


**Referred Conference Papers**

1. Encouraging engagement with mathematics through course change and additional support C. Patel, J.A. Rossiter, MEE, 2011 (Loughborough)


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


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

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


22. [P] Peer assessment and games to enhance student learning of frequency response methods, J.A. Rossiter, ECC, 2009


31. [J] Sufficient conditions for which MPC converges to the correct target, L. Shead, J.A. Rossiter, K.R. Muske, NMPC 2008 (Pavia, Italy)

32. [J] The potential of auto-tuned MPC based on minimal plant information, G. Valencia-Palomo and J.A. Rossiter, NMPC 2008 (Pavia, Italy)


34. [J] Compromises between feasibility and performance within linear MPC, Y. Ding, J. A. Rossiter, IFAC world congress, 2008


38. [P] Integrating mathematics teaching into engineering modules, J.A. Rossiter, IMA-SEFI conference on mathematical education of engineers, 2008


50. [P] Engaging year 1 students through problem based learning, J.A. Rossiter, Stuart Allen, Craig Bacon, Zhang Bin, Yi Pan, Yifan Zhao and Leo Shead, ECC, 2007


54. [J] Effectiveness of MPC algorithms for hot rolling mills in the presence of disturbances, Il-seop Choi and J.A. Rossiter, ACC, 2007

55. [J] Enlarging Feasible Regions for Interpolation Methods, Y Ding and J.A. Rossiter, ICC2006


57. [J] A chance-constrained robust MPC and application to hot rolling mills, IL Choi and J. A. Rossiter, ICC 2006


60. [P] Blended learning: some case studies from control engineering, J.A. Rossiter, submitted to 7th IFAC Symposium on Advances in Control Education, 2006


64. [P] Experiences of supporting mathematics learning through MATLAB and a VLE J.A. Rossiter, HELM, Loughborough, 2005


67. [P] Interpolation based MPC with exact constraint handling: the uncertain case, J.A. Rossiter, Y. Ding, B. Pluymers, J.A.K. Suykens, B. De Moor, ECC05


72. [P] Case studies of the resources students use, J.A.Rossiter, L. Gray and D. Rossiter, IFAC world congress, 2005


74. [J] Time varying terminal control, L. Imsland and J.A. Rossiter, IFAC world congress, 2005

75. IEEE Colloquium on predictive control, J.A. Rossiter, Feasibility, uncertainty and interpolation, Sheffield, April 2005

76. [P] Developments in Multi-rate Predictive Control, J.A. Rossiter, T.Chen, S.L.Shah, ADCHEM03, Hong Kong Jan 2004


80. [P] Interpolation based predictive control, J.A. Rossiter and B. Kouvaritakis and M. Bacic, ACC04


84. [J] A MPC Design for the Looper and Tension Control in Hot Strip Mill I. S. Choi, J. A. Rossiter, P. J. Fleming, UKACC 04
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87. [P] Linear time varying terminal laws in MPQP, J.A. Rossiter, B. Kouvaritakis and M. Cannon, UKACC04
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95. [J] A data driven subspace approach to predictive controller design, R. Kadali, B. Huang and J.A. Rossiter, DYCOPS, 2002
98. [P] Extending the stability guarantees for an efficient predictive control law, J.A. Rossiter, ISSC, Ireland, 2001, pp84-89
102. [J] Removing the need for QP in constrained predictive control, B. Kouvaritakis, M. Cannon and J.A. Rossiter, ADCHEM 2000, pp411-416


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118. [P] Reference Governors and predictive control, J. A. Rossiter and B. Kouvaritakis, ACC98

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146. [P] GPC controllers with guaranteed stability and mean-level control of unstable plant J.A. Rossiter, 1994, 33rd IEEE Conference on Decision and Control, Orlando, USA, pp3579-3580


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Workshop sessions at conferences


5. [P] Supporting international students: using audio technology to promote independent learning, J.A. Rossiter, University of Sheffield Learning and Teaching conference 2010
10. [P] Enhancing the First Year Experience Through Project Based Learning in HEA Engineering subject centre workshop Enhancing Project Based Learning in Engineering, J.A. Rossiter, 2009
13. [P] IFAC Control Resources initiative discussion and sharing session, J.A. Rossiter and L. Vlacic, IFAC world congress, 2008
15. [P] IEEE Colloquium on control education, Using peer assessment and MATLAB within the control curriculum and for large groups, J.A. Rossiter, Sheffield, March 2008
18. [J] IEEE Colloquium on control in systems biology, J.A. Rossiter and V. Kadirkamanathan, Sheffield, April 2007
19. [P] Helping everyone to learn mathematics: new resources for independent learning, J.A. Rossiter, Spotlight on learning and teaching, Sheffield, Jan 2007
21. [J] Enabling effective sharing of educational resources in control, J.A. Rossiter, Euan McGookin, Derek Atherton, S. Steiner, ICC 2006
22. [J] Enhancing student experience by effective collaboration between academic and service departments, J.A. Rossiter and N Dandy, AUA, Belfast, 2006
23. [P] IEEE Colloquium on optimisation for control, J.A. Rossiter, Sheffield, April 2006
24. [P] DISCUSSION WORKSHOP - Integrating mathematics into the curriculum, J.A. Rossiter, Sheffield University, FIFTH IMA CONFERENCE ON MATHEMATICAL EDUCATION OF ENGINEERS, 2006
26. [P] IEEE Colloquium on predictive control, J.A. Rossiter, Sheffield, April 2005
27. [P] Experiences of supporting mathematics learning through MATLAB and a VLE, J.A. Rossiter, HELM, Loughborough, 2005
Non-Refereed Abstracts, Reports and other Publications


Books in print and book contributions


2. [J] The potential of interpolation for simplifying predictive control and application to LPV systems, J.A. Rossiter, B. Pluymers and B. De Moor, in Non linear model predictive control; Assessment and future directions (editors R. Findeisen et al), Springer Verlag, 2007, pp63-76


