

University of Warwick Peer-Reviewed Publications

David Bacigalupo

14. D.A. Bacigalupo, J.W.J. Xue, S.D. Hammond, S.A. Jarvis, D.N. Dillenberger* and G.R. Nudd “Predicting the Effect on Performance of Container-Managed Persistence in a Distributed Enterprise Application”, 6th International Workshop on Performance Modelling, Evaluation and Optimization of Parallel and Distributed Systems, *In proc. 21st IEEE International Parallel and Distributed Processing Symposium (IPDPS'07)*, California, USA, 26-30 March 2007. IEEE Computer Society Press.

**Joint publication with Dr. Donna Dillenberger, IBM Distinguished Engineer, IBM T.J.Watson Research Centre, New York*

13. J.W.J. Xue, D.A. Bacigalupo, S.A. Jarvis, G.R. Nudd, “Performance Prediction of Distributed Enterprise Applications with Session Persistence”, *In Proc. 22nd Annual UK Performance Engineering Workshop (UKPEW'06)*, Bournemouth University, Poole, UK, 6-7 July 2006.

12. D.A. Bacigalupo, S.A. Jarvis, L. He, D.P. Spooner, D.N. Dillenberger*, G.R. Nudd, “An Investigation into the Application of Different Performance Prediction Methods to Distributed Enterprise Applications”, *The Journal of Supercomputing*, 34:93-111, 2005

11. D.A. Bacigalupo, S.A. Jarvis, L. He, D.P. Spooner, Denis Pelych*, G.R. Nudd, "A Comparative Evaluation of Two Techniques for Predicting the Performance of Dynamic Enterprise Systems", *Parallel Computing: Current & Future Issues of High-End Computing (Proceedings of the International Conference ParCo 2005)*, NIC Series 33:163-170, October 2006.

**Joint publication with Denis Pelych, director of the UK National Business to Business Centre*

10. L. He, S.A. Jarvis, D.P. Spooner, D.A. Bacigalupo, G. Tan, G.R. Nudd, "Mapping DAG-based Applications to Multiclusters with Background Workload", *In Proc. 5th IEEE International Symposium on Cluster Computing and the Grid (CCGrid'05)*, Cardiff, UK, 9-12 May 2005. IEEE Computer Society Press.

9. D.A. Bacigalupo, S.A. Jarvis, L. He, D.P. Spooner, G.R. Nudd, “Comparing Layered Queuing and Historical Performance Models of a Distributed Enterprise Application”, *In Proc. International Conference on Parallel and Distributed Computing and Networks (PDCN'05)*, Innsbruck, Austria, 15-17 February 2005. Acta Press.

8. L. He, S.A. Jarvis, D.A. Bacigalupo, D.P. Spooner, G.R. Nudd, “Performance-aware Load Balancing for Multiclusters”, *In Proc. 2nd International Symposium on Parallel and Distributed Processing and Applications (ISPA'04)*, Hong Kong, China, 13-15 December 2004. Springer Press (Lecture Notes in Computer Science 3358).

7. L.Zhao, S.A. Jarvis, D.A. Bacigalupo, D.P. Spooner, G.R. Nudd, "A Layered Framework for Grid Service Performance Model Composition", *In Proc. 20th Annual UK Performance Engineering Workshop (UKPEW'04)*, University of Bradford, UK, July 7-8, 2004
6. L. He, S.A. Jarvis, D.A. Bacigalupo, D.P. Spooner, X. Chen, G.R. Nudd, "Queueing Network-based Optimisation Techniques for Workload Allocation in Clusters of Computers", *In Proc. IEEE International Conference on Services Computing (SCC'04)*, Shanghai, China, 15-18 September, 2004. IEEE Computer Society Press.
5. D.A. Bacigalupo, S.A. Jarvis, L. He, G.R. Nudd, "An Investigation into the Application of Different Performance Techniques to e-Commerce Applications", 3rd International Workshop on Performance Modelling, Evaluation and Optimization of Parallel and Distributed Systems, *In Proc. 18th IEEE International Parallel and Distributed Processing Symposium (IPDPS'04)*, New Mexico, USA, 26-30 April 2004. IEEE Computer Society Press.
4. D.A. Bacigalupo, J.D. Turner, S.A. Jarvis, G.R. Nudd, "A Dynamic Performance Prediction Framework for e-Business Applications", *In Proc. 7th World Multiconference on Systemics, Cybernetics and Informatics (SCI'03)*, Florida, USA, 27-30 July 2003.
3. D.A. Bacigalupo, J.D. Turner, S.A. Jarvis, G.R. Nudd, "Modeling Dynamic e-Business Applications Using Historical Performance Data", *In Proc. 19th Annual UK Performance Engineering Workshop (UKPEW'03)*, University of Warwick, UK, 9-10 July 2003.
2. J.D.Turner, D.A.Bacigalupo, S.A.Jarvis, G.R.Nudd, "Using a Transaction Definition Language for the Automated ARMing of Web Services", *UKCMG Annual Conference on Technology Management and Performance Evaluation of Enterprise-Wide Information Systems (UKCMG'02)*, Reading, UK, 21-23 May 2002
1. J.D. Turner, D.A. Bacigalupo, S.A. Jarvis, D.N. Dillenberger*, G.R. Nudd, "Application Response Measurement of Distributed Web Services", *International Journal of Computer Resource Measurement*, 108:45-55, 2002.

*Joint publications with Dr. Donna Dillenberger, IBM Distinguished Engineer, IBM T.J.Watson Research Centre, New York

PhD Thesis

D.Bacigalupo "Performance prediction-enhanced resource management of distributed enterprise systems", PhD Thesis, Department of Computer Science, University of Warwick, 2006