

PUBLICATIONS
(Up to and including 2016)
Alan Burns

1 Books

1. A. Burns and A.J. Wellings, *Analysable Real-Time Systems Programmed in Ada*, 513 pages, 2016.
2. A. Burns and A.J. Wellings, *Real-Time Systems and Programming Languages*, 4th edition, 602 pages, Addison Wesley, 2009.
3. A Burns and A. J. Wellings, *Concurrent and Real-Time Programming in Ada*, Cambridge University Press, 2007.
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5. A. Burns and A.J. Wellings, *Concurrency in Ada*, Cambridge University Press, 2nd Edition, 402 pages, 1998.
6. A. Burns and A.J. Wellings, *Real-Time Systems and Programming Languages*, 2nd Edition, Addison Wesley, 611 pages, 1996.
7. A. Burns and A.J. Wellings, *HRT-HOOD: A Structured Design Method for Hard Real-Time Ada Systems*, Elsevier, 319 pages, 1995.
8. A. Burns and A.J. Wellings, *Concurrency in Ada*, Cambridge University Press, 396 pages, 1995.
9. A.Burns and G.L.Davies, *Concurrent Programming*, Addison Wesley, 377 pages, 1993.
10. A.Burns (editor), *Towards Ada 9X*, IOS Press, Studies in Computer and Communications Systems, 201 pages, 1992.
11. A.Burns and A.J. Wellings, *Real-Time Systems and Their Programming Languages*, Addison Wesley, 575 pages, 1990.
12. A.Burns, *Programming in Occam2*, Addison Wesley, 189 pages, 1988.
13. A.Burns, A.M. Lister and A.J Wellings, *A Review of Ada Tasking*, Lecture Notes in Computer Science, Vol 262, 141 pages, Springer Verlag, 1987.
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15. A.Burns (editor), *New Information Technology*, Ellis Horwood, 245 pages, 1984.
16. A.Burns, *The Microchip: Appropriate or Inappropriate Technology?*, Ellis Horwood, 190 pages, June 1981.
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2 Parts Of Books

18. K. Wei and J. Woodcock and A. Burns, Modelling Temporal Behaviour in Complex Systems with Timebands, Conquering Complexity, eds M. Hinchey and L. Coyle, Springer, pp277-307, 2012.
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20. A. Burns and A.J. Wellings, Programming Execution-Time Servers and Supporting EDF Scheduling in Ada 2005, Handbook of Real-Time and Embedded Systems, Eds I. Lee, J.Y-T. Leug and S.H. Son, pp13-1–13-20, 2007.
21. A.J. Wellings and A. Burns, Real-Time Java, Handbook of Real-Time and Embedded Systems, Eds I. Lee, J.Y-T. Leug and S.H. Son, pp12-1–12-17, 2007.
22. A. Burns and G. Baxter, Time bands in System Structure, in Structure for Dependability, Eds D. Besnard, C Gacek and C.B. Jones, Springer, pp74-90, 2006.
23. M. Caccamo, T. Baker, A. Burns, G. Buttazzo and L. Sha, Real-Time Scheduling for Embedded Systems, Handbook of Networked and Embedded Systems, Birkhauser, pp173-195, 2005.
24. A. Burns, Real-Time Systems, Encyclopedia of Physical Science and Technology, Vol 14, pp45-54, Academic Press, 2002.
25. J. Byun, A. Burns, R. Davis and A.J. Wellings, A Worst-Case Behaviour Analysis for Hard Real-Time Transactions, in Real-Time Database Systems, eds Azer Bestavros, Kwei-Jay Lin and Sang Hyuk Son, Kluwer Academic Publishers, pp235-249, 1997.
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27. N.C. Audsley, A. Burns, R.I. Davis, K.W. Tindell and A.J. Wellings, Real-Time System Scheduling, in Predictably Dependable Computing Systems, eds B. Randell, J.-C. Laprie, H. Kopetz and B. Littlewood, ESPRIT Basic Research Series, Springer, pp41-52, 1995.
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29. A.Burns, Preemptive Priority-Based Scheduling: An Appropriate Engineering Approach, in Advances in Real-Time Systems, ed Sang H. Son, Prentice Hall, pp225-248, 1994.
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31. A.Burns, An Architecture for HCI in Real-Time Systems, in Building Interactive Systems: Architectures and Tools, Eds. P. Gray and R.K. Took, pp56-68, Springer Verlag, 1992.
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3 Fully Reviewed papers

This section contains the titles of papers that are either published in referred journals or are referred conference papers that have appeared in archival proceedings.

33. I. Bate, A. Burns and R. I. Davis, An Enhanced Bailout Protocol for Mixed Criticality Embedded Software, *IEEE Transactions on Software Engineering*, 2016.
34. R. I. Davis, L. Cucu-Grosjean, M. Bertogna and A. Burns, A Review of Priority Assignment in Real-Time Systems, *Journal of Systems Architecture*, pp64-82, 2016.
35. A. Burns and A.J. Wellings, The Deadline Floor Protocol and Ada, *ACM Ada Letters*, Vol 36, No 1, pp29-34, 2016.
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37. A.J. Wellings, V. Cholpanov and A. Burns, Implementing Safety-Critical Java Missions in Ada, *ACM Ada Letters*, Vol 36, No 1, pp51-62, 2016.
38. S. Baruah, A. Burns and Z. Guo, Scheduling mixed-criticality systems to guarantee some service under all non-erroneous behaviors, *Proc. 28th Euromicro Conference on Real-Time Systems, (ECRTS)*, 2016.
39. A. Burns, Why the Expressive Power of Programming Languages such as Ada is needed for future, *Cyber Physical Systems, Proc. Ada-Europe International Conference on Reliable Software Technologies*, pp3-11, 2016.
40. T. Fleming and A. Burns, Improving the Schedulability of Mixed Criticality Cyclic Executives via Limited Task Splitting, *Proc. RTNS, ACM*, pp277-286, 2016.
41. R.I. Davis, A. Burns, S. Baruah, T. Rothvoss, L. George and O. Gettings, Exact Comparison of Fixed Priority and EDF Scheduling based on Speedup Factors for both Pre-emptive and Non-pre-emptive Paradigms, *Real-Time Systems Journal*, Vol 51, No 5, pp566-601, 2015.
42. A. Burns, M. Gutierrez, M. Aldea and M. Gonzalez Harbour, A Deadline-Floor Inheritance Protocol for EDF Scheduled Embedded Real-Time Systems with Resource Sharing, *IEEE Transactions on Computers*, Vol 64, No 5, pp1241-1153, 2015.
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47. H.C. Wong and A. Burns, Priority-based Functional Reactive Programming (P-FRP) using Deferred Abort, *Proc. Embedded and Real-Time Computing Systems and Applications (RTCSA)*, pp227-236, 2015.

48. D. Muller and A. Burns, Deriving period restrictions from a given utilization bound under RMS, Proc. 10th IEEE International Symposium on Industrial Embedded Systems (SIES), pp1-7, 2015.
49. A. Burns, T. Fleming and S. Baruah, Cyclic Executives, Multi-Core Platforms and Mixed Criticality Applications, Proc. 27th Euromicro Conference on Real-Time Systems, (ECRTS), pp3-12, 2015.
50. L.S. Indrusiak, J. Harbin and A. Burns, Average and Worst-Case Latency Improvements in Mixed-Criticality Wormhole Networks-on-Chip, Proc. 27th Euromicro Conference on Real-Time Systems, (ECRTS), 2015.
51. I. Bate, A. Burns and R.I. Davis, A Bailout Protocol for Mixed Criticality Systems, Proc. 27th Euromicro Conference on Real-Time Systems, (ECRTS), pp259-268, 2015.
52. A. Burns and A.J. Wellings, Testing conformity to the real-time Annex, ACM Ada Letters, Vol 35, No 1, pp17-25, 2015.
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68. A. Burns, R.I. Davis, P. Wang and F. Zhang, Partitioned EDF scheduling for multiprocessors using a C=D task splitting, Real-Time Systems Journal, Vol 48, No 1, pp3-33, 2012.
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