Analysable Real-Time Systems: Programmed in Ada

Prof Alan Burns

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How do real-time systems differ from normal information processing systems?

How can real-time systems be analysed to ensure they satisfy their temporal constraints?

Which features are needed in programming languages to implement real-time systems?

This latest book from Burns and Wellings answers these and other key questions about real-time systems. It provides an in-depth analysis of the requirements for designing and implementing real-time, embedded, cyber-physical systems, and discusses how these requirements are supported by the Ada programming language. No other book on real-time (or concurrent) programming covers the same breadth of material.

Topics covered in this book include:

- The definition of real-time, its necessary characteristics and desirable properties.
- Scheduling schemes, including fixed priority scheduling, Earliest Deadline First and Value-based scheduling.
- Analysis methods, including response-time analysis and processor demand analysis.
- Introduction to the Ada programming language.
- Programming adaptive and predictable real-time systems in Ada.
- Programming reliable and fault-tolerant systems in Ada.
- Analysing and programming for multiprocessor and multicore platforms.
- Mixed-criticality systems

The book is aimed at Final Year and Masters students in Computer Science and related disciplines. It has also been written with the professional software engineer, and real-time systems engineer, in mind. The material presented reflects the content of courses developed over a number of years by the authors at the University of York.

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