

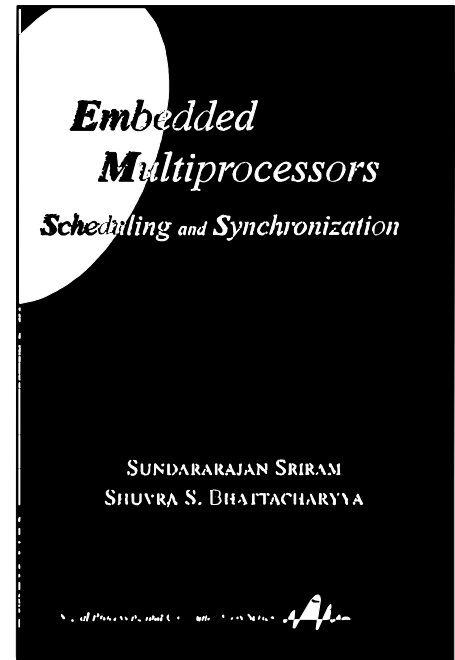
Scheduling and

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“...The intellectual content in this book is high. While some of the methods it describes are relatively simple, most are quite sophisticated. Yet examples are given that concretely demonstrate how these concepts can be applied in practical hardware architectures. Moreover, there is very little overlap with other books on parallel processing. The focus on application-specific processors and their use in embedded systems leads to a rather different set of techniques. **I believe that this book defines a new discipline.** It gives a systematic approach to problems that engineers have been able to face only in an ad hoc way before.”

—Edward A. Lee

*Department of Electrical Engineering and Computer Sciences,
University of California at Berkeley*



Embedded Multiprocessors

Scheduling and Synchronization

[Sundararajan Sriram](#), *Texas Instruments, Inc., Dallas, Texas*, and [Shuvra S. Bhattacharyya](#), *University of Maryland, College Park*

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description:

Reviews research in **three key areas** related to handling interprocessor communications in multiprocessor multimedia systems: the incorporation of interprocessor communication costs into multiprocessor scheduling decisions; a modeling methodology called the "synchronization graph," for multiprocessor system performance analysis; and the application of the synchronization graph model to the development of hardware and software optimizations that can reduce the interprocessor communication overhead of a given schedule. With a foreword by **Prof. Edward A. Lee**, University of California, Berkeley.

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