Boston University

College of Liberal Arts

A. Bestavros, 1991

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GRS CS-792 (B1)
Embedded Real-Time Computing
Spring 1992

Meeting Place: SOC B-43 **Meeting Time:** Tue & Thu (2:00pm – 03:30pm)

Instructor: Azer Bestavros
- ◇ **Office:** MCS 276
- ◇ **Office Hours:** Tue 3:30 – 5:00pm & Thu 12:30 – 2:00pm
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References:

- ◇ **[HRS]** *Hard Real-Time Systems* edited by John Stankovick and Krithi Ramamrithan, IEEE Computer Society Press, 1988.
- ◇ **[FSM]** *Foundations of Real-time Computing: Formal Specifications and Methods* edited by André van Tilborg and Gary M. Koob, Kluwer Academic Publishers, 1991.
- ◇ **[SRM]** *Foundations of Real-time Computing: Scheduling and Resource Management* edited by André van Tilborg and Gary M. Koob, Kluwer Academic Publishers, 1991.
- ◇ **[CPS]** *Constructing predictable real-time systems* Wolfgang Halang and Alexander Stoyenko, Kluwer Academic Publishers, 1991.
- ◇ **[RTS]** *Real-Time systems and their programming languages* Alan Burns and Andy Wellings, Addison Wesley, 1991.
- ◇ [???] *A collection of papers from various journals and conference proceedings, as well as other theses, books, and (maybe) manuals.*

Plan:

- ◇ I will spend the first few lectures presenting different areas of research in real-time and embedded systems. Later in the course, I will present my own research work in details.
- ◇ By the end of the introductory lectures, it is expected that students enrolled in the class will take turns in presenting papers describing various research areas. A classified list of suggested papers will be handed out in due time and should be considered as a starting point. Everybody is welcome to suggest other possibilities. Everybody is expected to have read the papers presented in any given day.
- ◇ In addition to the paper presentation, a written summary and critique of the presented work will be required. These will be compiled and distributed by the end of the course.
- ◇ I will try to arrange for guest speakers to talk about their research. Details will be announced in due time.
- ◇ A final comprehensive term paper is expected of every student taking the course for credit. In lieu of that papers, groups of 2-3 students might elect to work on a project (e.g. simulations, development of verification software, ...) In this latter case a project report is expected.
- ◇ There will be no problem sets, quizes, or exams.