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# IECON'01

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## Special Session on Real Time Simulation of Transportation Systems

organized and co-chaired by  
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### Call For Papers

The U.S. Department of Transportation has engaged in an aggressive program to integrate and deploy Intelligent Transportation Systems (ITS) throughout the United States. A major component of ITS is often traffic control systems. While new control system algorithms and hardware platforms have been developed, very little testing has been conducted before these algorithms or platforms are deployed. Real time simulation, particularly using hardware-in-the-loop simulation, is a tool that can provide testing and evaluation of these systems while they are in the development stage and before they are deployed. However, real time simulation techniques have not been extensively discussed or reviewed. The purpose of this special session is to encourage the discussion of this important topic and to disseminate this information to the profession.

Topics of interest include, but are not limited to:

- Controller interface devices and other real time simulation interface hardware
- Protocols for real time simulation of traffic systems
- Software applications for hardware-in-the-loop simulation
- Applications of CORSIM and other microsimulation models for real time simulation
- Relationship of NTCIP standards and protocols to real time traffic signal system
- Communications issues in real time simulation
- Testing transit priority or railroad pre-empt schemes using real time simulation

**Submission of Papers:** The working language of the conference is English. Submit a full paper using the following layout: Page 1: title, authors' names, mailing address, phone, fax, and email of each author. Identify the contact author, preferred topical area, subject area and keywords. Page 2: title, authors' affiliations, 100-200 words abstract. Pages 3-8: full paper limited to 6 pages, including figures and references. Submit full papers in postscript of pdf format by e-mail to [b.k.johnson@ieee.org](mailto:b.k.johnson@ieee.org).

#### Author's Schedule:

**Deadline for Submission of Full Papers:**

**May 14, 2001**

**Notification of Acceptance:**

**June 15, 2001**

**Deadline for Submission of Final Manuscripts:**

**August 20, 2001**

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