

# SCI'2001

The Fifth Multi-Conference on Systemics, Cybernetics and Informatics  
Orlando, Florida, USA, July 22 - 25, 2001

## CALL FOR PAPERS

### Special Sessions on Modern Digital System Synthesis

Modern microelectronic technology enables implementation of complete complex systems on a single chip. Progress in microelectronic technology is extremely fast. It is outstripping the designers' abilities to make use of the created opportunities. The complexity and quality of systems as well as their design and production cost and time tend to be more limited by the design methods and tools than by the microelectronic technology.

To highlight the importance of the adequate design methods and tools in digital system design and to provide a focus on the high quality work in this area, the Fifth Multi-Conference on Systemics, Cybernetics and Informatics - SCI' 2001 invites contributions for the Special Sessions on Modern Digital System Synthesis. Papers describing novel methods and tools for design of digital hardware and hardware/software systems are requested for these Special Sessions. Originality, applicability to modern technologies and complex designs, and relevance of the technical content will be the primary evaluation criteria of the papers.

**TOPICS OF INTEREST** include novel methods and tools for:

- **emerging technologies and system paradigms:** re-configurable systems, systems-on-a-chip, custom computing machines, etc.
- **system-on-a-chip design and hardware/software co-design:** generic system architectures and system platforms, system and circuit decomposition and partitioning, "intellectual property" issues, design reuse, etc.
- **synthesis:** system, hardware/software, high-level, RT-level and logic synthesis, technology aware synthesis tools, synthesis for low-power, high-speed, low communication complexity, etc.

### Organizing Committee:

#### L. Jóźwiak

Eindhoven University of Technology,  
The Netherlands

#### K. Kuchciński

Lund Institute of Technology, Sweden

#### C. Wolinski

IRISA/IFSIC Rennes, France

### Special Session Coordinator:

#### Lech Jóźwiak

Eindhoven University of Technology  
Faculty of Electrical Engineering  
P.O. Box 513, EH 10.25  
5600 MB Eindhoven, The Netherlands  
Tel: +31.40.2473645  
Fax: +31.40.2433066  
e-mail: [LECH@ics.ele.tue.nl](mailto:LECH@ics.ele.tue.nl)

### Submission of Papers:

Prospective authors are encouraged to submit the PostScript or PDF version of their full papers or paper drafts of 2000 to 5000 words to the Special Session Coordinator by e-mail: ([LECH@ics.ele.tue.nl](mailto:LECH@ics.ele.tue.nl))

### Important Dates:

Deadline for submission:  
December 15, 2000

Notification of acceptance:  
February 16, 2001

Deadline for final version:  
April 13, 2001