

**8th International Conference on  
Human Aspects of Advanced Manufacturing:  
Agility & Hybrid Automation  
27–30 May, 2003**

Organized by

National Research Council of Italy  
Institute of Technology and Cognitive Sciences

Department of Communication Sciences  
University of Siena

Department of Industrial Design, Art and Communication  
Politecnico di Milano

In cooperation with

Center for Industrial Ergonomics  
University of Louisville, USA

**CALL FOR PAPERS**

You are cordially invited to participate in the 8th International Conference on Human Aspects of Advanced Manufacturing: Agility & Hybrid Automation, to be held 27–30 May 2003 in Rome, National Research Council of Italy, Institute of Technology and Cognitive Sciences

**CONFERENCE OBJECTIVES**

The Conference will strive to promote, exchange, and disseminate up-to-date information and research results on integration of people, organization and technology in the quest for manufacturing agility, i.e. enhancement and integration of human skills with hardware performance for improved market competitiveness, management of change, product and process quality, and human-system reliability.

In the tradition of its predecessors this Conference aims to consolidate recent work, and to stimulate further discussion, on the state of the art in Human Aspects of Advanced Manufacturing: Agility & Hybrid Automation and its increasing range of

applications in the emerging Information Society. One of the basic intentions of this conference is to offer a forum for discussion and exchange of experiences among researchers and practitioners. Therefore, besides academics, we kindly invite all those in companies involved in the field of the conference, to contribute by submitting papers or presenting innovative tools, solutions or experience reports.

## **MAIN AREAS OF INTEREST**

The Conference will cover a broad range of design and engineering issues, and applied topics related to human factors and ergonomics, relevant to the integration of people, technology and organization in manufacturing environments, including but not limited to the following:

Advanced Manufacturing Systems  
 Automation Safety, Robot Systems and Accident Prevention  
 Cognitive Engineering and Manufacturing Systems Design  
 CRM  
 Design of the Human Infrastructure for Computer-Integrated Technology  
 Future Trends in Advanced Manufacturing and Human-Integrated Enterprises  
 Human Aspects in the Design, Implementation, Operation and Use of  
 Human Factors Engineering: Design, Testing and Evaluation of Work Systems  
 Human Factors in Maintenance, Inspection and Testing  
 Human Factors in Total Quality Management  
 Human-Computer Interaction and System Useability  
 Human-Computer Interface Design  
 Hybrid (Human-Computer) System Integration  
 Integration of People, Manufacturing Technology, and Organization  
 International Cooperation and Standardization Issues in Safety, Occupational  
 Health, Environmental Protection, and Quality Management  
 Issues in Hybrid Manufacturing Systems: Concepts, Theories and  
 Knowledge Management  
 Models  
 Modern Manufacturing Paradigms and Market Competitiveness  
 Robot Systems  
 Skills, Education and Training Requirements  
 Social & Organizational Design and Management Issues  
 System and Human Reliability, Safety & Worker Health Issues  
 Virtual Reality and AI Applications in HFE  
 Work Design in Development of Personnel in Advanced Manufacturing

## **PROPOSALS FOR PRESENTATION**

### **Technical Presentations**

A 300-word abstract should state the objectives, theoretical framework, methods, data source, results, and applications. A separate page should identify the author(s) name(s), affiliation(s), address(es), phone, fax, and e-mail address.

## Posters and Demonstrations

A 150-word abstract should be submitted. A separate page should identify the author(s) name(s), affiliation(s), address(es), phone, fax, and e-mail address.

## Workshops

A 500-word abstract should state the objective, content, scientific importance, methodology for conducting the workshop, and the target audience. A separate page should identify the presenter(s) name(s), affiliation(s), address(es), phone and fax numbers, and a brief biography of the presenter(s).

## Panel Discussions

A 500-word abstract should state the objectives of the panel, its scientific or educational importance, and a brief summary of the area of emphasis for each panel member. A separate page should identify names, affiliations, addresses, and phone numbers of the panel chair and the panel members.

## SUBMISSION DEADLINES

Deadline for abstracts:	<b>November 1, 2002</b>
Review notification:	<b>December 15, 2002</b>
Deadline for camera-ready papers [electronic format only]:	<b>February 28, 2003</b>
Deadline for proposals for Posters/Demonstrations/Panel	<b>September 1, 2002</b>

## ABSTRACT SUBMISSION FORM

(electronic format only): manu@media.unisi.it

## INTENT TO PARTICIPATE

To indicate interest in the Conference, please contact: manu@media.unisi.it

## Conference Chair

Sebastiano Bagnara  
Politecnico di Milano, Italy

## LOCAL COMMITTEE

Perla Innocenti, Politecnico di Milano  
Simone Pozzi, University of Siena  
Francesca Rizzo, University of Siena  
Luca Save, University of Siena  
Federico Vidari, Politecnico di Milano

## **INTERNATIONAL ERGONOMICS ASSOCIATION (IEA) K.U. SMITH STUDENT AWARD**

The IEA K.U. Smith Student Award honors a deserving student responsible for an application of or contribution to ergonomics/human factors (E/HF). The next award will be presented during the IEA 2003 XVth Triennial Congress, scheduled to convene August 24, 2003, in Seoul, Korea.

The Award winner will receive of a cash award of US \$3,000. Depending upon need, an additional stipend for travel to the Congress also may be awarded to the winner. Certificates will be awarded to two runners-up.

Any student enrolled in an accredited post-secondary institution (college, university, technical, or vocational school) worldwide is eligible to apply for the award. All areas of E/HF are eligible for consideration. Examples of applicable projects include an applied E/HF project, a human performance study or analysis, a design project or product, a research project undertaken in the laboratory or field, or a theoretical/conceptual contribution to E/HF.

A student wishing to apply for the award should submit the following to the IEA Student Award Committee:

- (1) Five copies of the abstract for a paper that the student has authored, that documents an application of or contribution to E/HF on the part of the student.
- (2) A resume for the student, with the student's name, full address, e-mail and phone numbers, institution enrolled in, experience, list of publications, and a summary of accomplishments and/or contributions related to the field of E/HF. The resume should be limited to 4 pages in length.
- (3) A letter from the student's academic advisor on institutional letterhead certifying the following: (1) that the paper described in the abstract was written by the student; (2) that the student was enrolled in the academic program at the time that work described in the abstract was carried out; (3) when the work described in the abstract was carried out; and (4) that the abstract is being submitted for the IEA K.U. Smith Student Award.

The IEA Student Award Committee will select the awardee and two runners-up using a two-stage procedure:

- (1) review of abstracts and resumes; and
- (2) review of full paper.

Students who have successfully passed the first stage will be invited by the IEA Student Award Committee to submit full papers for final selection. Two selection criteria will be used to select the awardee and runners-up:

- (1) Quality of contribution to E/HF, as documented in the full paper; and
- (2) Other accomplishments in and contributions to E/HF, as described in the resume.

Deadlines for the award process are as follows:

Nov. 4, 2002: Abstracts, resumes and advisor letters must be received by the IEA Student Award Committee.

Dec. 2, 2002: Applicants eligible for submitting full papers will be notified by this date.

March 3, 2003: Full papers from eligible applicants must be received by the IEA Student Award Committee by this date.

March 31, 2003: Applicants informed of results of award evaluation by this date.

April 30, 2003: Full paper by winner due to IEA 2003 Congress Program Committee by this date (see [www.iea2003.org](http://www.iea2003.org) for details). (NOTE: The IEA 2003 Congress Program Committee will reserve a slot for the award winner to present her/his paper. The winner does NOT have to meet the Oct. 31, 2002 deadline for submitting paper abstracts. However, the winner must submit her/his full paper to the IEA 2003 Congress Program Committee by April 30, 2003.)

Submissions should be sent to the Chair of the Student Awards Committee:

Chair: Prof. Michael Smith

Department of Industrial Engineering

University of Wisconsin, Madison

1513 University Avenue

Madison, WI 53706, USA

Fax: 608-262-8454

e-mail: [mjsmith@engr.wisc.edu](mailto:mjsmith@engr.wisc.edu)