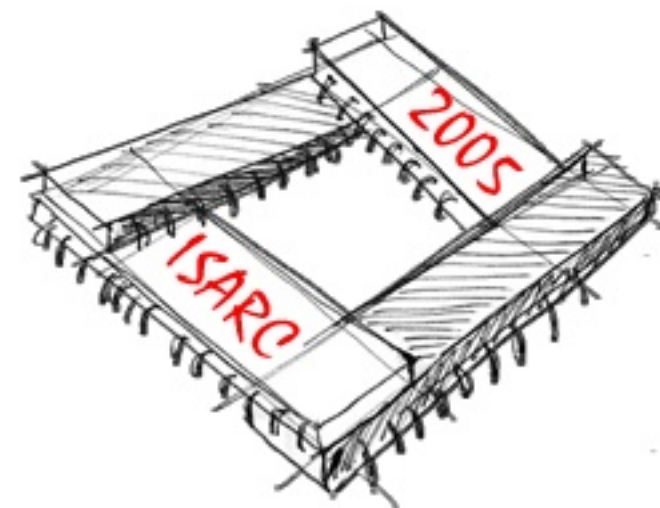


*preliminary
announcement and
call for paper*



2 2 t h
I n t e r n a t i o n a l
S y m p o s i u m
o n A u t o m a t i o n
a n d R o b o t i c s
i n C o n s t r u c t i o n

11-14 September 2005
Ferrara, Italy

Call for Papers

Potential contributors are requested to submit extended abstracts of 300-400 words in any of the topics of interest written in English. The abstracts must be submitted according to the suggested procedure on the web site, www.imamoter.cnr.it/isarc05, or by e mail like attached file in .pdf format. The abstracts must be submitted with name of authors and their affiliation, address and email. All the submitted abstracts and papers will be reviewed by International Program Committee, the proceedings will be published and available at the symposium.

Schedule

Submission of Abstracts: January 17, 2005
Preliminary Acceptance: March 15, 2005
Submission of Full Papers: June 1, 2005
Acceptance of Full Papers: July 1, 2005

ISARC 2005

The IAARC – sponsored 22st International Symposium on Automation and Robotics in Construction (ISARC 2005) is slated for September 11-14, 2005 in Ferrara, Italy. For the first time ISARC is slated in Italy, that takes a particular meaning and introduces a challenge in the successful series of ISARC symposia, hoping that ISARC 05 will become the seem of new ideas.

The hard automation and robotics for construction are born and grown in industrial countries with considerable renewal of real estate, but many countries have to maintain large, important, old and same time artistic estate, buildings, bridges, roads, monuments and environment. Knowledge, technologies and techniques have been developed to maintain these important estate and heritage and to joint them with new constructions and quality of life, so everybody hopes that new technologies, robotics, IT are able to help and reduce the cost of this important aim.

Ferrara, small but important City of Art, first example of modern urban planning, enclosed inside its historic walls, seems to be the ideal place and natural “conference hall” to discuss about the traditional and new topics of ISARC .

Topics

The Symposium will cover the whole spectrum of hard automation, robotics and equipment automation, soft automation and IT, to build and make maintenance and servicing in construction.

The next list covers the main topics, but it isn't restrictive:

Automation and control systems construction equipments (crane, excavator, etc.);
Planning, scheduling for automation of earth, road and construction works
Automation in excavation and underground construction
Automation and computer integrated construction for roads, bridges and infrastructures
Automation and computer integrated building construction
Construction, maintenance and inspection robots
Design, kinematics and control of robot for construction applications (parallel, climbing, walking, etc.)
Sensors, actuators and devices for automation and construction robots;
Field and service robotics
Autonomous and telerobots for construction, waste management ad hazard environment
Domotics and intelligent building management
Building design for use of medical, service, disabled and cleaning robots
Automation, simulation, virtual reality and IT in building and construction design
Automation, simulation, virtual reality and IT in urban planning
Automation and artificial intelligence in management, maintenance and inspection
Data exchange and construction process integration protocols and standards (design, data base, GIS, etc.)
Design, simulation and control systems in earthquake engineering
Advanced sensing, scanning and imaging for geotechnical, construction and restoration applications
Automation, robots and new technologies in old building and monuments restoration.

Venue

ISARC 05 will be held in the Faculty of Architecture of Ferrara University, the building of Faculty (Tassoni Palace) is placed in the oldest part of town, ten minutes walking from the Cathedral Square and many hotels.

Ferrara is a city placed in the north-eastern part of Italy, 5 km south of Po River and 60 km ovest of Adriatic See. City of art, seat of an important court of the Renaissance, it's included in the UNESCO's list of the World Heritages. Ferrara's downtown is enclosed in the city walls, about 2km from side to side, so the turist can visit it walking or by bike. For more information on the history, museums, artistic events, naturalistic parks, beach, restaurants and other turist and leisure activities of Ferrara and its province. we suggest you to visit the web site www.ferraraterraeacqua.it

Sponsored and Co.sponsored by

- International Association for Automation and Robotics in Construction (IAARC)
- International Council for Research and Innovation in Building and Construction (CIB)
- IEEE Robotics and Automation Society
- SIRI Italian Robotics Society

National Organising Committee

- CNR - IMAMOTER
- Architecture and Engineering Faculties of Ferrara University
- NUOVA QUASCO

Organized by:

Fiorenzo Malaguti (C.N.R.)
Claudio Alessandri (Ferrara Univ.)
Sergio Beghelli (Ferrara Univ.)
Raffaele Di Gregorio (Ferrara Univ.)
Daniele Canapini (Nuova Quasco)

Contact and Information

The web site address of ISARC 2005 is: www.imamoter.cnr.it/isarc05 while he genaral e-mail address is: ISARC05@imamoter.cnr.it

Or you can contact:

Dr. Fiorenzo Malaguti
IMAMOTER-CNR
Via Canal Bianco 28, Loc. Cassana
44044 FERRARA, Italy
phone +39 0532 735625
fax +39 0532 735666
email: f.malaguti@imamoter.cnr.it