SYMPOSIUM ISR 2004
THE 35th INTERNATIONAL SYMPOSIUM ON ROBOTICS
March 23-26 2004
Paris (France) – Nord Villepinte

Sponsored by : French Ministry of Industry - French Ministry of Research and by Members of the French Manufacturing Technologies Association (Symap)
In association with the French National Center for Scientific Research (CNRS) with the honorable sponsorship of the National Academy of Technologies of France.

Symposium home page : http://www.isr2004.com

First Call for Papers - ISR 2004

The 35th International Symposium of Robotics **ISR 2004** will take place in Paris, France in March 2004. The host organization is SYMAP, the French Manufacturing Technologies Association with headquarters in Paris. The Symposium will be held together with INDUSTRIE 2004, a major industrial exhibition, which will create interest and opportunities in the area of robotics.
Robotics has developed into well known specialist scientific techniques and technologies over the last 30 years, which have resulted in many useful applications, mainly in the manufacturing industry. The ISR 2004 Robotics Symposium aims to focus its interest therefore on present and future breakthrough technology developments, which will have a noticeable and significant impact on third millennium manufacturing activities and on human society as a whole.

Markets tend to pull existing robotics technology towards new applications and industries such as food or pharmaceutical industries, logistics automation, flexible robot automation, virtual enterprises demanding extended flexibility, greater agility, better networking, improved man-machine interaction. On the other side, service robots are more and more appreciated for cleaning, maintenance, health care etc.
In parallel, technology push makes a better efficiency and integration of robots feasible, thanks to advances in IT systems engineering and the use of artificial intelligence.
Consequently, contributions will be welcome considering the following topics :

Research and Development
 User Friendly Modeling and Design
Man-Robot Interaction
Human Sensory System Models
Virtual World-Real World Links
Control through Virtual Reality and Augmented Reality
Oral and Gestured Communication
Humanoid and Animal Robot Properties and Design
Teams of Cooperating Robots
Man at Work Behavior Models
Machine Awareness
Environment and Person Recognition through Vision.
Ergonomics in Industrial Environments

Technology
Robot Vision Systems
Haptic Sensors and other Sensors
Virtual Reality Systems
Emerging Technologies
New Sensors
New Actuators
Micro and Nano Technologies
Man-Robot Interfaces
Haptic Interfaces
New Materials

Products
Micro and Nano Robots
Mobile Robots
Industrial Robot Improvements
Household Robots
Intervention Robots in Hostile Environments
Robot Control Systems
Very Intelligent Robots VIR
Safety and Reliability Products
International Standards
Tele-operation for Industry

Markets and Applications
Food Industry
Medicine, Surgery and Pharmaceutical Applications
Space and Underwater Applications
Intelligent Manufacturing Systems
Robot Interaction and Interfacing with Manufacturing Systems
Automotive Industry
Non-Manufacturing Applications

Economic, Social and Environmental Issues
Future of Robotics in Human Society
Robots and the Environment
Strategic and Financial Management Issues
Macro Economic and Social Issues
Education and Training
Ethics and Artificial Intelligence
Commercialisation and Technology Transfer issues
Robotisation and Employment
Working Conditions and Safety
Robots among Populations
Robot Market Evaluation.
Robots and Behavioral Sciences

Special sessions
Beyond the regular contributions, the International Scientific Committee would appreciate it to receive proposals regarding the organization of special sessions devoted to specific robotics domains perhaps not mentioned in the above listed themes.
Your suggestions and/or proposals are welcome !

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Provisional deadlines
- **November 2002**   - First Call for Abstracts
- **February 2003**   - Deadline for Abstracts
- **April 2003**   - Reply to Authors
- **July 2003**   - Start Registration
- **October 2003**   - Deadline for full Papers
- **November 2003**   - Final Programme on Line
- **March 2004**   - ISR 2004 Symposium

IFR International Federation of Robotics