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Frankfurt, 17 September 2008

ISR International Symposium on Robotics 2008
The annual ISR will take place in Seoul, Korea from 15 to 17 October 2008





Seoul, The 39th International Symposium on Robotics (ISR 2008) will be held during October 15 to 17, 2008 at COEX, Seoul, Korea. The purpose is to provide opportunities for various researchers and engineers worldwide to present their pioneering works and to share their ideas in the fields of robotics. During the conference, significant progresses in all aspects of research, development, and applications will be covered and discussed in presentations and lectures together with other relevant events. Online registration is still open on the webpage www.isr08.org.

Three Plenary Talks, an Invited Talk and a Panel Discussion are scheduled:

- Packbots in Battlefields in Iraq
- Mars Exploration Rovers
- Robots in Nuclear Power Plants
- Surgery Using Medical Robots
- Robots for Defense, Space, and Nuclear plants

These exciting applications will be presented in the plenary talks by Mrs. Helen Greiner, Dr. Richard Vople, and Dr. Seungho Kim, the masterminds behind these robots. The ISR 2008 is proud to announce that the three experts will share their knowledge and experiences with the participants, promising invaluable moments of gaining understandings and insights.

Furthermore, a real surgery by Da Vinci as an invited talk will be shown and discussed on by Woo-Jung Lee, M.D., who has had perhaps the richest experiences in the surgery with Da Vinci in Korea.

“Defense Robot”	“Nuclear Robot”	“Space Robot”	“Surgery Robot”	Panel Discussion
Packbots in Battlefields in Iraq	Robots in Nuclear Power Plants	Mars Exploration Rovers	Surgery Using Medical Robots	“Robots for Defense, Space, and Nuclear plants”
 Helen Greiner (Co-founder iRobot, USA)	 Seungho Kim (KAERI, Korea)	 Richard Volpe (California Inst. of Tech., USA)	 Woo-Jung Lee (Yonsei Univ. Health System, Korea)	<ul style="list-style-type: none"> • Helen Greiner • Seungho Kim • Richard Volpe <p>(Moderator: Pyung-Hun Chang, KAIST, Korea)</p>
2008.10.15 09:30~10:20	2008.10.16 09:00~09:50	2008.10.17 09:00~09:50	2008. 10. 16 09:50~10:40	2008. 10. 17 09:50~10:50

- Biography -

Helen Greiner

Helen Greiner is the co-founder and chairman of iRobot, where both Packbot and Roomba are made. She has also been honored as a Technology Review Magazine "Innovator for the Next Century," and has been awarded the DEMO God Award at the DEMO Conference. She has also worked at NASA's Jet Propulsion Laboratory and MIT's Artificial Intelligence Laboratory. She was one of the three people to design the first version of the iRobot. She holds a bachelor's degree in mechanical engineering and a master's degree in computer science.

Richard Volpe

Richard Volpe is Manager of the Mobility and Robotic Systems Section of the Jet Propulsion Laboratory (JPL). The section is a team of over 80 robotics engineers doing research and spaceflight implementation of robotic systems for Roving, Digging, Ballooning, Drilling, and other modes of in-situ planetary exploration. Richard is also a member of JPL's Science and Technology Management Committee. From 2001 through 2004, Richard served as the manager of Mars Regional Mobility and Subsurface Access in JPL's Space Exploration Technology Program Office. In addition to guiding technology development for future robotic exploration of Mars and the Moon, he has been actively involved in 2003 & 2009 rover mission development, and 2007 lander mission operations. This has included managing internal JPL rover technology development, as well as external university research funded by the Mars Technology Program.

Seungho Kim

Seungho Kim has been Manager of Advanced Robotics Lab. in Korea Atomic Energy Research Institute from 1980 to 2006. He has designed and implemented robotic systems for U-tube inspection of steam generators in a nuclear power plant and for the inspection of inside-piping in Reactor Coolant Systems, and for inside inspection of dousing tanks in containment buildings. He is widely known as the pioneer in applications of robots to nuclear power plants in Korea. He received the B.S., M.S. and Ph. D. degrees in mechanical Engineering from Yonsei University, Seoul, Korea, in 1979, 1982 and 1988 respectively.

A detailed schedule of all other sessions is available on the webpage www.isr08.org. Online registration is possible by 30 September 2008. The topics of the **scientific sessions** are:

1. Automation

- Industrial robots
- Robot application
- Intelligent manufacturing system
- New applications

2. Service Robotics

- Field robotics
- Various service robotics
- Rescue, surveillance and defense robotics
- micro/nano robotics
- New service robotics

3. Humanoid and Android

- Biomimetics
- Humanoid
- Android

4. Home Robotics

- Personal robotics
- Home appliance robotics
- Education robotics
- Entertainment robotics

5. Human-Robot Interaction

- Virtual reality
- Telerobotics
- Haptics
- Animation and simulation

6. Cognitive Robotics

- AI
- Learning and adaptive systems
- Network and ubiquitous robotics

7. Mobile Robotics

- SLAM
- Distributed robot system
- Mobile Platform

8. Manipulation and Control

- Mechanisms and kinematics
- Hand and arm control
- Calibration and identification

9. Sensors and Components

- Vision, Tactile, Auditory sensors
- Visual serving and tracking
- Sensor network

10. Economic, Social and other Issues

ISR 2008 will be held in the COEX Convention Center in Seoul, Korea. COEX, Asia's premier international convention and exhibition center, opened in Seoul, Korea, in the year 2000. At the forefront of globalization, COEX will continue to provide a high-tech venue for international exhibitions, meetings, and cultural events in the 21st century.

For more information contact:

ISR 2008 Secretariat

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The International Federation of Robotics was established in 1987 in connection with the 17th International Symposium on Robotics, as a professional non-profit organisation, by robotics organisations from over 15 countries. Since 1970 an International Symposium on Robotics is organised every year on a different continent, in a different country and another city. The Symposium is systematically organised in conjunction with an International Robot Exhibition.

The purpose of the International Federation of Robotics is to promote research, development, use and international co-operation in the entire field of robotics to act as a focal point for organisations and governmental representatives in activities related to robotics.