Welcome Message

On behalf of the IEEE WHC 2013 Organizing and Steering Committee, I would like to invite you to the IEEE World Haptics Conference 2013, the 5th Joint Eurohaptics Conference and the IEEE Haptics Symposium (IEEE WHC 2013). As the general chair of the conference, it will be my great pleasure and honor to see you in Daejeon, Korea, on April 14 - 17, 2013.

The IEEE WHC 2013 will offer opportunities to share the most up-to-date scientific discoveries and innovative products. The ultimate objective is to advance our field of haptics through networking among academia, industry, and affiliated specialists; and to build mutual understanding among colleagues from all over the world.

The scientific program will provide participants with opportunities to exchange the latest information, ideas, and experiences in the field of haptics. Your important contributions of papers and poster presentations, as well as active participation in workshops, will make the event even more fruitful. Invaluable instructional lectures, workshops and tutorials will be offered from outstanding haptic experts.

A special industry session will be organized for this conference. Global IT leaders will share their recent findings as well as business insights through the industry session and exhibition.

I truly hope that you will take this chance to join us in Daejeon, to benefit from this exciting technical program, and to plunge into the wonders of the traditional cultures and customs in this hidden jewel of Asia. Great weather and delicious cuisine mixed with friendly faces and warm hospitality await you.

I am looking forward to meeting you in Daejeon on April 14 - 17, 2013. With your active participation and support, this conference will be a resounding success. I assure you that the event will be an academically enriching, socially enjoyable, and truly memorable experience for all delegates and guests.

Thank you very much.

Sincerely,

Dong-Soo Kwon
General Chair of IEEE WHC 2013

Important Dates

Workshop & Tutorial Proposal Submission: October 19, 2012
Technical Paper Submission: November 2, 2012
Workshop & Tutorial Proposal Acceptance Notification: November 16, 2012
Paper Acceptance Notification: December 21, 2012
Camera-Ready Paper Submission: January 18, 2013
Demonstration Submission: January 25, 2013
Art Paper Submission: January 25, 2013
Early Registration: March 1, 2013

Committee

General Chair
Dong-Soo Kwon (KAIST, Korea)

Conference Editorial Board
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Miguel A. Otaduy (URJC Madrid, Spain)
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Workshop & Tutorial
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Ian Oakley (Universidade da Madeira, Portugal)

Poster Session
Sang-Youn Kim (Korea Univ. of Tech. and Education, Korea)

Demonstration
Hiroyuki Kajimoto (Univ. of Electro-Communications, Japan)
Jee-Hwan Ryu (Korea Univ. of Tech. and Education, Korea)

Industry Exhibition
Jinung An (DGIST, Korea)

Art Exhibition
Andrea Bianchi (Sungkyunkwan Univ., Korea)

Special Industry Session
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Local Arrangement
Ki-Uk Kyung (ETRI, Korea)
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Secretariat
Tae-Heon Yang (KRISS, Korea)
We welcome academic workshops or tutorials on established or emerging research topics in haptics and related research areas. The workshops or tutorials should provide a comprehensive introduction to specific areas of haptics research, or elaborate on relevant scientific theories and methods in depth. Proposals should not be used solely as platforms to promote a presenter’s own work or to disseminate commercial information.

### Special Industry Session
Numerous industry sessions on emerging topics are scheduled during the conference. We are planning to invite four speakers from the global IT industry leaders to share their vision on haptic fields and their recent findings as well as business insights.

### Art Exhibition
The Art Exhibition aims to attract interactive artworks exploring unusual ways of thinking about the sense of touch. We welcome physical or virtual, digital or analog, but definitely tangible art and design pieces as the content for an evocative, imaginative or even provoking exhibition that will take place during the World Haptic 2013 conference in Daejeon, South Korea.

Artworks can range from physical interactive installations, sculptures, wearable haptic devices, tangible or haptic product and services, or even live performances that put emphasis on the sense of touch or novel ways to relate with it. The Art Exhibition welcomes work from a wide range of practitioners in areas such as interaction design, research or art, including submissions from students and independent practitioners.

### Demo & Poster Session
This session provides interactive communication between presenters and participants. For demo session, presenters should prepare hands-on demonstration or multimedia contents describing their system in detail. The demo proposal should include introduction of the demonstration plan for visitors as well as system description. The poster session is another form of full paper presentation. For interactivity, we encourage poster presenters to prepare tangible prototypes or demonstrations as well as a printed poster.

### Transportation
![Transportation Map]

**Incheon Int’l Airport**

**Gimpo Int’l Airport**

**Seoul Station**

**Daejeon Station**

**Seoul Station to Incheon Int’l Airport**

3hr

**Seoul Station to Gimpo Int’l Airport**

1hr 30mins

**Seoul Station to Daejeon Convention Center**

(1hr)

**Daejeon Convention Center to Incheon Int’l Airport**

(Limousine Bus Terminal)

**Daejeon Convention Center to Gimpo Int’l Airport**

(3hr)

**Daejeon Convention Center to Seoul Station**

(1hr)

**Daejeon Convention Center to Daejeon Station**

(1hr)

### Topics
- Haptic Interface Design & Control
- Tactile Display
- Haptic Sensors and Actuators
- Haptic Interactions & Design
- Teleoperation and Virtual Environments
- Haptic Rendering
- Shared Haptic Control and Collaboration
- Human Haptic Perception
- Neurohaptics
- Biomechanics and Motor Control
- Affective Haptics
- Haptics in Industrial Applications
- Haptics in Mobile Devices
- Other Innovative Applications of Haptics

### Special Topics
- Haptics in Industry
- Haptics in Art