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# Haptics: Perception, Devices and Scenarios

6th International Conference, EuroHaptics 2008  
Madrid, Spain, June 10-13, 2008  
Proceedings

## Volume Editor

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# Foreword

Welcome to the proceedings of the 6th EuroHaptics 2008 conference held in Madrid, June 10–13, 2008 under the auspices of the Universidad Politécnica de Madrid. EuroHaptics conferences have been held in Europe, initially annually, now on a biennial basis, since the first one at the University of Birmingham in 2001. The promotion of the European haptics community by the Eurohaptics Society ([www.eurohaptics.org](http://www.eurohaptics.org)) integrates a multidisciplinary group of researchers with a wide range of interests stemming from backgrounds in technical, scientific, educational and artistic disciplines. The regular congregation of individuals around the topic of haptics has led to many fruitful and successful interactions that have developed across the EuroHaptics conferences. Moreover, this community now enjoys links to researchers around the rest of the world through the WorldHaptics conference series, of which EuroHaptics is proud to be a sponsoring partner. Such links offer increased possibilities for collaboration which can only bring us greater successes in our endeavours to understand the nature of haptics.

June 2008

Alan Wing  
President of EuroHaptics Society

# IEEE Technical Committee on Haptics (TCH)



<http://www.worldhaptics.org/>

The IEEE Technical Committee on Haptics (TCH) is co-sponsored by the IEEE Robotics & Automation Society and the IEEE Computer Society. The mission of the TCH is to integrate the diverse interests of the highly interdisciplinary haptics community and to improve communication among the different research areas. Haptics research covers many fields including robotics, control, neuroscience, psychology, rendering, algorithms, interaction design, multimodal and multisensory research, to name just a few. Major breakthroughs can be anticipated through the integration and cross-fertilization of different disciplines.

The TCH serves the haptics community by coordinating the scheduling of major haptics conferences, facilitating special conference sessions, workshops and tutorials, organizing special journal issues on haptics, supporting student exchange programs, and contributing towards a new journal on haptics.

Among the many accomplishments of our first year as a TC, we received the Most Active Technical Committee of the Year Award from the IEEE Robotics & Automation Society in 2007 and successfully launched the IEEE Transactions on Haptics for 2008.

There are currently three major international conferences dedicated to haptics research: Symposium on Haptic Interfaces for Virtual Environment and Tele-operator Systems (known as the Haptics Symposium), EuroHaptics, and World Haptics Conference. The World Haptics Conference is held biannually during odd years. The Haptics Symposium and the EuroHaptics conferences are held during even years. Now that the founding phase of the TCH is behind us, we are working towards processes for the long-term operation of the TCH which include the recent chair election and a TCH charter.

## Getting Involved

Membership in the IEEE TCH is open to all individuals interested in haptics research at a professional level. There is no fee for membership. IEEE membership is not required for joining the TCH, although individuals are encouraged to consider joining the IEEE Robotics & Automation Society and the IEEE Computer Society. Please visit our website at <http://www.worldhaptics.org> to join the TCH and for updated information on haptics conferences, special workshops, and other activities in the haptics research community.

With Warm Regards,

January 2008

Hong Z. Tan, Chair  
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