

# Editorial

Lynette A. Jones

IT is a great honor and privilege to be the new editor-in-chief of the *IEEE Transactions of Haptics (ToH)*. Since its inception in 2007, the journal has grown substantially in terms of the number of submissions and published articles. Much of the credit for the journal's success can be attributed to J. Edward Colgate who as the first editor-in-chief worked tirelessly to establish a journal that reflected the breadth of the haptics research community and published the best papers in haptics. From its earliest days, Ed made sure that *ToH* attracted papers that spanned the diverse range of activities subsumed under the rubric of haptics, from descriptions of devices, to models of skin mechanics and psychophysical studies of haptic phenomena. He recruited an exceptional editorial board for whom he set high standards and made sure that papers were handled efficiently and equitably. Ed's enthusiasm and dedication is truly exemplary. Although Ed will no longer be involved in the day to day management of the journal, he has agreed to chair the *ToH* Management Committee that provides oversight of the journal. In that capacity, I am sure that I will call on his and the Committee's advice and expertise often.

In my role as the new editor-in-chief, I would like to welcome Cagatay Basdogan as the new associate editor-in-chief. Cagatay is a professor in the College of Engineering at Koç University, Turkey. His research is focused on human-machine interfaces, control systems, mechatronics, biomechanics, computer graphics, and virtual reality technology. In particular, he is known for his haptic research with applications to medical robotics and simulation, robotic motion planning, micro/nano/optical tele-manipulation, human-robot physical interaction, molecular docking, information visualization, and understanding of human perception and cognition in virtual worlds. Cagatay has been involved with *ToH* since its inception and served as an associate editor from 2008-2012. In 2010, he was awarded the meritorious service award in recognition of his work as an associate editor for the journal.

It also gives me great pleasure to announce that three new members will be joining the Editorial Board of *ToH*: Frédéric Giraud, Volkan Patoglu, and Marco Santello. Frédéric Giraud is an associate professor at the Université Lille1, France. His research focuses on the modelling and control of piezoelectric devices, with particular application to tactile displays. He is the co-inventor of StimTac, a tactile display which renders the feeling of touching programmable surfaces. Volkan Patoglu is an associate professor of mechatronics engineering at Sabanci University, Turkey. His research is in the area of physical human-machine interactions, and more specifically the design and control of force feedback robotic systems with applications to rehabilitation and skill training. He is also interested in cognitive robotics. Marco Santello is a professor of biomedical engineering, director, and Harrington Endowed Chair in the School of Biological and Health Systems Engineering at Arizona State University. His research interests are in human motor control, learning, the biomechanics of object grasping and manipulation, the neural control of hand muscles, and multisensory integration. Marco's research has applications to the rehabilitation of sensorimotor hand function, prosthetics, and biologically-inspired robotics. The areas of expertise of these three new members complement those of the present editorial board.

This is the first issue of *ToH* that is only available electronically and is published in the OnlinePlus format. There will be a semi-annual abstract book and CD containing papers in PDF and ePub. A further new development is that the podcast produced by Will Provancher assisted by Ilana Nisky, Vincent Lévesque, and Michaël Wiertelwski which provides an overview of each article published in *ToH* is now available on iTunes.

As is the custom in the first issue of the year, it gives me great pleasure to announce the recipients of the meritorious service awards. These citations recognize four individuals whose diligence and dedication has contributed to the success of the journal. This year's recipients are Roberta Klatzky for her work as an Associate Editor, and Sliman Bensmaia, Karlin Bark and Vincent Lévesque for their work as reviewers. Congratulations and thank you.

Finally, I would like to thank the members of the editorial board with whom I have worked as associate editor-in-chief over the past three years. I have been impressed by your commitment and diligence and look forward to working with you as we pursue new avenues that highlight the research in haptics.

Lynette A. Jones  
Editor-in-Chief





**Cagatay Basdogan** received the PhD degree from Southern Methodist University in 1994. He has been a member of faculty in the College of Engineering at Koç University since 2002. Before joining Koç University, he was a senior member of the technical staff at the Information and Computer Science Division of the NASA-Jet Propulsion Laboratory (JPL) at the California Institute of Technology from 1999 to 2002. He moved to JPL from the Massachusetts Institute of Technology where he was a research scientist and principal investigator at the MIT Research Laboratory of Electronics and was a member of the MIT Touch Lab from 1996 to 1999. He worked with Musculographics Inc. at Northwestern University Research Park for two years before moving to MIT. He conducts research and development in the areas of human-machine interfaces, control systems, mechatronics, biomechanics, computer graphics, and virtual reality technology. He has served as an associate editor of the *IEEE Transactions on Haptics*. He is currently an associate editor of the *Computer Animation and Virtual Worlds* journal. In addition to serving on the program and organizational committees of several conferences, he also chaired the IEEE World Haptics Conference in Istanbul in 2011.



**Frédéric Giraud** received the PhD degree in electrical engineering from the University Lille1, France, in 2002, and is currently an associate professor of power electronic and of modelling and control of electrical machines at the same university. Since 2002, he has been part of INRIA—a research institute in computer science, France—as a member of the Mint team, and involved in the StimTac Project of IRCICA—a research institute on advanced communication, France—since 2006. In 2012, he spent one year at the University of Toronto as an invited researcher, in the Department of Computer and Electrical Engineering. His research focuses on the modelling and control of piezoelectric devices. The applications are: mechatronic applications, tactile applications, and applications in industrial processes. He is co-inventor of StimTac, a tactile display which is able to render the feeling of touching programmable surfaces.



**Volkan Patoglu** received the PhD degree in mechanical engineering from the University of Michigan, Ann Arbor, in 2005. He is an associate professor of mechatronics engineering at Sabanci University. He was a postdoctoral scholar at Rice University from 2005 to 2006. His research is in the area of physical human-machine interaction, in particular, the design and control of force feedback robotic systems with applications to rehabilitation and skill training. His research extends to cognitive robotics.



**Marco Santello** received the bachelor's degree in kinesiology from the University of L'Aquila, Italy, in 1990, and the doctoral degree in sport and exercise science from the University of Birmingham, United Kingdom, in 1995. After a postdoctoral fellowship in the Department of Physiology (now Neuroscience) at the University of Minnesota, he joined the Department of Kinesiology at Arizona State University (ASU) (1999-2010). He is currently a professor of biomedical engineering, director, and Harrington Endowed Chair in the School of Biological and Health Systems Engineering. His main research interests are motor control, learning, and biomechanics of object grasping and manipulation, neural control of hand muscles, haptics, and multi-sensory integration. His laboratory uses complementary research approaches, ranging from intramuscular electromyography and transcranial magnetic stimulation to motion tracking, kinetic analysis, and virtual reality environments. His research has applications to rehabilitation of sensorimotor hand function, prosthetics, and biologically-inspired robotics. He has published his work (70+ publications) in neuroscience and engineering journals. His research has been supported by research awards from the National Institutes of Health, the US National Science Foundation, the Whitaker Foundation, and The Mayo Clinic.

He currently serves as regular member of the Motor Function, Speech, and Rehabilitation Study Section at the National Institutes of Health, as an associate editor for *Neuroscience and Biomedical Engineering*, and as a member of the Editorial Board of the *Journal of Assistive, Rehabilitative and Therapeutic Technologies*. He is a member of the Society for Neuroscience and the Society of Neural Control of Movement.