



DONG-SOO KWON, Korea (South)

Dong-Soo Kwon (S'89-M'97) received his B.S. degree from Seoul National University in 1980; his M.S. degree from the Korea Advanced Institute of Science and Technology (KAIST) in 1982; his Ph.D. degree from Georgia Institute of Technology in 1991, all in mechanical engineering. From 1991 to 1995, he was a research staff in Oak Ridge National Laboratory. Since 1995 he has been a professor of mechanical engineering department in KAIST, and is currently the director of the Human Robot Interaction Research Center, the Center for Future Medical Robotics, and Global Institute for Talented Education in KAIST. Dr. Kwon was the president of Korea Robotics Society in 2012, the founding chair of the Korea Haptics Community during 2008~2009, a director of Korea Robot Soccer Association from 2001, and the president-elect of the Korean Society of Medical Robotics from 2012. He is also a committee member of the Korea Association of Robot Industries and the chairman of the Robot Convergence Forum.

IEEE Activities: Chairman of Member Service Committee, Member Activities Board, IEEE Robotics & Automation Society, Jan. 2010-2012; Member, Technical committee on haptics, 2009-present; Standing Steering Committee, IEEE International Symposium on Robot and Human Interactive Communication, 2007-present; Advisory Committee, IEEE/RSJ International Conference on Intelligent Robots and Systems, 2012-present; Senior Program Committee, IEEE/RSJ International Conference on Intelligent Robots and Systems, 2011, 2012, 2013; Steering Committee, ACM/IEEE International Conference on Human-Robot Interaction, 2010-2013; Chairman of steering committee, IEEE World Haptics Conference, 2013-2015; Program Chair, IEEE/RSJ International Conference on Intelligent Robots and Systems, 2016; Workshops and Tutorial Co-Chairs, IEEE International Conference on Robotics and Automation, 2014; General Chair, IEEE World Haptics Conference, 2013; Award Chair, IEEE International Symposium on Robot and Human Interactive Communication, 2013; Publicity Co-Chairs, ACM/IEEE International Conference on Human-Robot Interaction, 2013 and 2010; Program Vice-Chairs, IEEE/SICE International Symposium on System Integration, 2012; Program Committee, ACM/IEEE International Conference on Human-Robot Interaction, 2012 and 2011; Organizing Committee, IEEE Conference and Workshops on Engineering of Autonomic and Autonomous Systems, 2011; Program Chair, IEEE Workshop on Advanced Robotics and its Social Impacts, 2010; General Chair, IEEE International Symposium on Robot and Human Interactive Communication, 2007; International editorial board, *Advanced Robotics Journal*, 2007-present; Guest Editor, *IEEE Transactions on Industrial Electronics*, 2003 and 2004.

Qualifications: I have served on committees and chairs of several RAS conferences and activities. From these valuable experiences, I understand very well the whole process from designing to executing RAS activities. In particular, my experience as the chairman of the member service committee of the RAS member activities board has made me realize the needs of our members and made me come up with many practical ideas. If elected as an AdCom member, this experiential and field knowledge will be an important asset that will enhance my productive role in RAS. I also have valuable leadership experience as a former president of the Korea Robotics Society, and the founding chair of the Korea Haptics Community.

Major Accomplishments:

- As the General Chair of IEEE World Haptics Conference 2013, I have successfully organized the conference in Daejeon with the following distinctions: the largest number of submissions, the largest number of participants, and an innovative and versatile program including the Haptics-in-Art Exhibition.
- As the chairman of Member Service Committee, Member Activities Board, I have proposed and implemented several new ideas and executed for improved RAS member services.
- As the Program Chair of IEEE/RSJ International Conference on Intelligent Robots and Systems 2016, I have proposed a new and innovative format for the conference.

- As the General Chair of IEEE International Symposium on Robot and Human Interactive Communication 2007, I have successfully organized this conference from the perspective of finance, number of participants, and the variety of the conference program.

Position Statement: If I am honored with the privilege to serve RAS, I will focus my efforts on the following: Providing more dedicated and personal services to members, establishing new conferences, reorganizing joint conferences with similar agenda and topics, attracting more participation from the robot industry, publishing the conference proceedings at the level of a periodical journal, and globalizing conferences.

1) Member service: It is my primary goal to provide the highest, most necessary and optimized services to members. I will make an effort to provide more systematic and distinguished member services.

2) Conference: In an era of constant innovation, we need to prepare for new emerging ideas. Therefore, I want to encourage a conference that will be an inclusive platform for these new ideas and technology. At the same time, there are many conferences that overlap in terms of theme and topics. I will try to encourage the integration or joint running of these conferences so that we can realize the full potential of academic discussion, technology and industrial efforts. Secondly, our conference proceedings have as much authority as periodical journals, because they consist of high quality papers that have passed strict full review. They are also excellent sources to gain insight about the frontline of technological advancement. Hence, I wish to establish a publication system that has credibility equal to an archival journal.

3) Robot industry participation: Robot technology must not end as merely academic discussion, but must be able to transfer easily over to the industrial sector. I shall promote ways to include and encourage participation of industries in conferences. In order for the robot industry to develop, it is essential for robot technology to integrate and interact with other technologies, industries, arts, and cultures. I shall make an effort to provide a platform for the convergence of all sectors inviting new sponsors from leading global companies.

4) Society globalization: I shall try to diversify our membership and do my best to make the conference a truly global one that attracts people from all around the world. I believe this will lead to the globalization and advancement of robot technology.

From my experience with various conference operations and the member service board, I understand how the society functions, how ideas are transformed into actions, and what parts need reform. To achieve such a truly international and attractive society, I will dedicate myself to ensuring that RAS truly meets the needs, and helps to fully realize the potential, of all our members.