



## **EUGENIO GUGLIELMELLI, Italy**

Eugenio Guglielmelli (S'92-M'95-SM'11) (MSc 1991, Ph.D. 1995 both from University of Pisa, Italy) is Professor of Bioengineering, Founder and Head of the Biomedical Robotics and Biomicrosystems Laboratory, and Director of Studies of the School (Facoltà) of Engineering at Campus Bio-Medico University in Rome, Italy. From 1991 to 2004 he has been at the ARTS Lab of the Scuola Superiore Sant'Anna (Pisa, Italy), which he coordinated 2002-2004. His main research interests are in biorobotics, human-centred robotics, biomechatronic design, bioinspired robot control, and in their application to rehabilitation and assistive robotics, neuroengineering and neurorobotics. He is author/co-author of 250+ scientific peer-reviewed publications appeared on international journals (70+), books (20+) and conference proceedings. He is co-inventor of 6 patents. He has been/is Principal Investigator or co-PI of several European and National research grants over the last 20 years. He also promoted and led international cooperation research programs with universities in Japan, US and Brazil.

### **IEEE Activities:**

**COMMITTEES/BOARDS:** 2003-2007 Founder and Co-Chair of the IEEE RAS Technical Committee on Rehabilitation Robotics; Winner of the IEEE RAS Award for the 2007 Most Active Technical Committee; 2008-2011, Associate Editor of the *IEEE Robotics & Automation Magazine*; 2009, Guest Editor of the Special Issue on Rehabilitation Robotics of the *IEEE Transactions on Robotics* (vol. 25, no. 3, June 2009); 2009-2013 Associate Editor of the *IEEE Transactions on Robotics*; 2010-2011, Chair of the Standing Committee for Membership, Admission and Retention; July 2013 – current (5-year term) – Editor-in-Chief, *IEEE Robotics & Automation Magazine*.

**SOCIETY:** Since 1991 member of the IEEE Robotics and Automation Society (RAS). Since 2010, IEEE Senior Member; 2001 -2003 IEEE RAS Secretary; 2008-2010, Associate Vice-President for Technical Activities, IEEE Robotics and Automation Society; 2011-current, Associate Vice-President for Membership Activities, IEEE Robotics and Automation Society.

**CONFERENCES:** 1999 General Co-chair, International Conference on Humanoid Robotics (HURO99); 2003, Special Session Chair, International Conference on Advanced Robotics (ICAR 2003, Coimbra, Portugal); 2004, Workshop Chair, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2004, Sendai, Tokyo); 2007 – Chair of the International Scientific Committee and Co-chair of the Organizing Committee of the 5th IARP/IEEE-RAS/EURON International Workshop on Technical Challenges for Dependable Robots in Human Environments (Rome, Italy, April 15-16 2007); 2007 – Exhibits Chair, IEEE International Conference on Robotics and Automation (Roma, Italy); 2009, Program Co-chair of the IEEE International Workshop on Robot and Human Interaction and Communication (RO-MAN 2009, Toyama, Japan, October 2-5); 2012, General Chair of the IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics (BioRob 2012-Rome, Italy –June 24-27, 2012); 2012, Program Chair of the IEEE/RSJ International Conference on Intelligent Robots and Systems (October 7-12, Vilamoura, Algarve Portugal); 2013, Member of the Executive Program Committee of the IEEE/RSJ International Conference on Intelligent Robots and Systems (November 7-12, 2013-Tokyo, Japan).

**Qualifications:** In the last twelve years I served in a variety of different roles for RAS, e.g. in the editorial boards of the two main journals, in the organizing committee of the main RAS conferences, and in the main governing boards of the Society. This service gave me the opportunity to acquire an in-depth knowledge of the whole body of RAS activities, in a very special period of significant growth and development for the Society. As RAS Secretary I also gained a lot of experience on the formal and operative procedures which shall be used for running the AdCom activities. I have also served in several Scientific and Management Boards of public and private research institutions, and I am well skilled.

## Major Accomplishments:

- During his term as RAS Secretary, he significantly contributed to some major achievements, such as the approval of the new RAS Constitution & Bylaws, the RAS\EMBS MoU for the successful start-up of the BioRob Conference Series, the RAS\IFR MoU for the successful start-up of the IEEE RAS\IFR Summer School Series, the procedure for the birth of the new *T-RO* and *T-ASE* journals, and more;
- During his term as Associate Vice-President for Technical Activities (with Ken Goldberg as VP), he significantly contributed to the implementation of the first round of TC triennial reviews, the GOLD luncheon and presentations, and more;
- During his 4-year term as Associate Editor for *IEEE RAM*, he significantly contributed to the integration in *RAM* of highly cited, high-quality survey and tutorial papers that gave an important stimulus to the IF increase over the years;
- As General Chair of BioRob 2012, he led the most successful edition of this Conference Series both in terms of participants (550+) and of submissions (350+). According to the 2012 RAS Survey, BioRob became the third most-attended conference after ICRA and IROS.
- As Program Chair of IROS 2013, he included in this edition of the conference special successful events for the IROS Jubilee celebrations, such as the historical survey with Jubilee videos and awards, and more. The conference was the most attended robotics one in Europe up to that date.

**Position Statement:** If elected, I will work during my term to sustain the development of RAS mainly in three different ways:

- First of all, I will carefully listen to proposals and contributions coming from other RAS members. I would love to be instrumental to the implementation of projects coming from the membership, especially from the many new members of the Society and from student members. To this aim, I will promote specific actions, also at the AdCom level, to give all members the opportunity to regularly express their ideas and to give their contribution to the future of RAS and IEEE;
- Second, I will carefully monitor the outcome and impact of RAS activities and the related use of Society resources. Along this line, I will identify activities to be suppressed or significantly revised in order to guarantee the best use of Society resources;
- Third, I will promote new initiatives to significantly strengthen and enlarge the offer of RAS services toward the new members, especially members from developing countries and student members in general.

The main principles inspiring my activities as an AdCom member, when expressing my position and vote during the plenary meetings as well as when contributing to some other governing bodies, will be the following:

- To foster the balanced growth of RAS in all the IEEE Regions and the visibility of the Society towards academic, governmental and industrial actors interested in R&A;
- To use the largest possible portion of the Society resources for implementing new initiatives and strengthen the quality and outreach of existing initiatives;
- To keep the Society open to networking and contamination with other IEEE and non IEEE entities in order to support long range innovation of its services to members and evolution of its scope;
- To take advantage of latest media innovations for providing novel and better services to membership;
- To further develop the RAS role as a global player capable of stimulating international cooperation in research and education in R&A,

Finally, to implement the lines of actions and working principles expressed above, I will exploit all the possible and appropriate synergies deriving from my current position as Editor-in-Chief of the *IEEE Robotics & Automation Magazine*, the official organ of the Society to communicate with its membership.