



Toshio Fukuda

Candidate for 2019 IEEE President-Elect



Statement

Home-Value-Connected

I would like make efforts to increase IEEE membership in the world and make the IEEE more comfortable "Home" for everybody to stay in IEEE. Thus I would like to focus on the following:

1. Improve financial transparency,
2. Revise membership fee,
3. Join at least one technical society,
4. Introduce corporate membership for industry, and
5. Create IEEE-University making use of the MOOC.

We need the sound financial balance of IEEE to enjoy more activities in IEEE. All members can find a technical society as their technical home, as well as geographical location as their geo-home. Everybody will share their interests and "Value" of IEEE technically and geographically, and so will collaborate with growing and changing today's technology in a worldwide manner, globally and locally.

Needs and expectations for IEEE have been changing for technology professionals, in particular, for industry practitioners, Young Professionals, Women in Engineering, entrepreneurs and also students to seek "Connected", higher quality interactions and opportunities, with IEEE and its communities. We need to attract more members by the corporate membership for industry. The Concept of the IEEE-University making use of MOOCs from IEEE and its alliance can be the "Home" for them and everybody to update emerging technology and careers, since we create the IEEE "Value" of the high quality. IEEE should adapt itself swiftly to the agile and emerging technological demands.

Thus IEEE can grow and advance technology for humanity.

CV

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| 1971-Received B.E. from Waseda University | 1981-Associate Professor at Science University of Tokyo |
| 1973-Received M.S. from The University of Tokyo | 1989-Professor at Nagoya University |
| 1977-Received D.Sc from The University of Tokyo | 2013-Professor at Meijo University |
| 1973-1977Studied at Yale University | 2013-Professor at Beijing Institute of Technology |
| 1977-Research Scientist at National Mechanical Engineering | 2013-Professor emeritus at Nagoya University |
| 1979-1980-Visiting Research Fellow at the University of Stuttgart | 2017 Foreign Member, Chinese Academy of Sciences |

Research Interests

Intelligent robotic system, self-organizing system, micro-nano robotics, bio-robotic system, neuromorphic intelligent control, fuzzy control, control of mechanical systems and technical diagnosis

Committees/Boards

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| Director, Division X (2001-2002) | Proceedings Editorial Board, 2000 |
| Director, Region 10 (2013-2014) | Journal of MEMS, 1993-2000 |
| Director, Division X (2017-2018) | Transactions on Robotics and Automation Editorial Board, 1989-91 |
| President, Robotics & Automation Society (1990-1999) | IEEE Nomination and Appointments Committee, 2003-04 |
| RAB/TAB Transnational Committee, 1998 | IEEE-SA Standards Board, 2002-03 |
| TAB Periodicals Committee, 1998 | TAB Management Committee, 2006-09 |
| Meetings & Services Committee, 1999 | TAB Nomination and Appointments Committee, 2006 |
| Nominations and Appointments Committee, 1999 | Admission and Advancement Committee, 2006-07 |
| IEEE Fellows Committee, 1997-99 | Environment & Safety Medal Award Committee, Chair, 2007-10 |
| Founding President, Nano Tech. Council (2002-2003) | TAB/PSPB PRODUCTS AND SERVICES COMMITTEE, 2017 |

Region

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| Region 10: Director 2013-2014, Director-Elect, 2011-2012 | Region 10: Advisor, 2015-2017 |
| Region 10: Technical Activities Coordinator, 2009-2010 | Japan Council, Member at large |
| Region 10: Nomination Committee Chair, 2015-16 | Japan Council, Member, Industry Promotion committee |

Conferences

- Intelligent Robots and Systems (IROS): Founding Chair, 1988; Advisory Committee Chair, 1989-2000
 International Conference on Robotics and Automation (ICRA): General Chair, 2004, 1995
 International Conference on Evolutionary Computation General Chair, 1996
 International Joint Conference on Neural Networks Program Chair, 1991; Steering Committee Chair, 1993
 Workshop on Robot and Human Communication: General Chair, 1994
 IEEE Conference on Fuzzy Systems Program Co-Chair, 1995
 IEEE Conference on Intelligent Transportation Systems (ITS): General Chair, 2000
 IEEE Conference on Industrial Electronics: General Chair, 2000
 IEEE Conference on Advanced Robotics and Social Impacts (ARSO): General Chair, 2005
 IEEE/SICE System Integration International (SII): General Chair, 2008
 International Symposium on Micro-Nano Mechatronics (MHS): General Chair, 1990-2012
 IEEE Conference on Cyborg and Bionic Systems (CBS): General Chair, 2017
 IEEE Conference on Intelligence and Safety for Robotics (ISR): General Chair, 2018

Awards

- IEEE ICRA Best Service Robot Manipulation Paper Award, 2017
 Medal of Honor with Purple Ribbon, Government of Japan, 2015
 Friendship Award of State Administration of Foreign Experts affairs of the P.R.C., 2014
 IEEE/RSJ IROS Harashima Award for Innovative Technologies, 2011
 IEEE ICRA Best Manipulation Paper Award, 2011
 IEEE Technical Field Award on Robotics and Automation, 2010
 IEEE RAS George Saridis Leadership Award in Robotics and Automation, 2009
 IEEE Transactions on Automation Science and Engineering Googol Best Paper Award, 2007
 IEEE Robotics & Automation Society Pioneer Award, 2004
 IEEE Third Millennium Medal, 2000
 Dr.-Ing. Eugene Mittelmann Achievement Award, 1997

Toshio Fukuda

Professor, Beijing
Institute of Technology
Professor Emeritus,
Nagoya University/
Meijo University

About me:

<http://www.mein.nagoya-u.ac.jp/personal/fukuda>

Facebook Page:

<https://www.facebook.com/Toshio.Fukuda.IEEE/>

【IEEE Elections】

Web Site

iee.org/elections

Voting

Directvote.net/ieee

From Aug 15 to Oct 1
13:00 EDT USA /
17:00 UTC



Thank you
For your vote!