



**Robotics & Automation Society**



**and**

**IEEE Brain Initiative**



**April 2017**

**Jose M. Azorin**

**Representative member**



# RAS update



- **Major RAS conferences:**

## International Conference on Robotics and Automation (ICRA 2017)



**ICRA2017**  
May 29 – June 3, 2017 • Singapore

### IMPORTANT NOTICE

*Early and advance registrants for ICRA (before May 15, 2017) in the standard and student registration categories will receive a **free** 7-inch tablet containing the conference proceedings and conference app as part of the registration package.*

This is the first time that ICRA attempts to innovate on the distribution of conference proceedings and conference program to delegates. There will be NO USB proceedings nor printed conference program digest book given to registered delegates. The conference digest book and paper proceedings will be pre-installed in the tablet. The conference app also has a cloud-based web portal for information distribution and sharing.

Details on collection and use of the tablet will be included in the reminder email to ICRA registrants in May 2017.

Tablets for *onsite* registrants are subject to availability.

## 2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2017)

September 24-28, 2017, Vancouver, British Columbia, Canada





# RAS update



- **Member Statistics and Geographical Distribution**

- The IEEE Robotics and Automation society currently has over 13,000 members, originating from 120 different countries all over the world.

- **New IEEE RAS Student Chapters:**

- North South University Robotics and Automation Society Student Branch Chapter in the **Bangladesh** Section
- Universidade do Porto Robotics and Automation Society Student Branch Chapter in the **Portugal** Section
- Yarmouk University Robotics and Automation Society Student Branch Chapter in the **Jordan** Section
- Universidad Catolica de Santa Maria Robotics and Automation Society Student Branch Chapter in the **Peru** Section
- University of Turkish Aeronautical Association Robotics and Automation Society Student Branch Chapter in the **Turkey** Section
- Koç Üniversitesi Robotics and Automation Society Student Branch Chapter in the **Turkey** Section



# RAS update



- **IEEE Council Representatives**

William Hamel

RAS Representative to **IEEE Biometrics Council** (2016-2017)



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Masahiro Nakajima

RAS Representative- **IEEE Nanotechnology Council** (2015-2016)



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Ravinder Dahiya

RAS Representative- **IEEE Sensors Council** (2015-2016)



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Jose Azorin

RAS Representative- **IEEE Systems Council** (2016-2017)



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Jose Contreras-Vidal

RAS Representative- **IEEE Systems Council** (2017-2018)



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# BRAIN update



- **IEEE BRAIN Initiative**

- Mission: facilitate cross-disciplinary collaboration and coordination to advance research, standardization and development of technologies in neuroscience to help improve the human condition.
- Chair: Paul Sajda, PhD, Columbia University
- Co-Chair: Jose Carmena, PhD, University of California, Berkeley

- **Involved Societies:**

- Antennas and Propagation Society
- Circuits and Systems Society
- Communications Society
- Computational Intelligence Society
- Computer Society
- Consumer Electronics Society
- Council on Electronic Design Automation (CEDA)
- Digital Senses Initiative
- EMBS
- Magnetics Society
- Robotics and Automation Society
- Sensors Council
- Signal Processing Society
- Society on Social Implications of Technology
- Solid States Circuits Society
- Standards Association
- Systems Council**
- Systems, Man, and Cybernetics Society



# BRAIN update



- **BrainInsight:**

- The IEEE Brain Initiative eNewsletter
- A quarterly online publication.
- Space to share technical information and forward-looking commentary on brain-related research and technologies.

<http://brain.ieee.org/category/newsletter/2017-issue-1/>



# BRAIN update



- **Conference and events:**

- Preconference workshop to 8th International IEEE EMBS Neural Engineering Conference:
- Brain-focused workshop post-Sensors 2017 on Nov 2 in Glasgow, Scotland.
- Satellite event to Neuroscience 2017. Planning as a 2-day event on Nov 9-10 in D.C.
- Neuroethics panel at IEEE TechEthics Event. Venue and date TBD but will likely be in 4Q17.
- Brain data competitions in St. Petersburg (Russia), Boston, Berlin (Germany), and Glasgow (Scotland).
- Hackathon at IEEE SMC 2017 (Banff, Canada, Oct 5-8).



# BRAIN update



- **Committees**

- **Conferences**

- **Publications**

- A list of brain related publications have been added to the brain website

- **Education**

- Committee has identified a list of videos for use as educational material (will soon be available on the brain portal)

- **Standards**

- An Industry Connections Activity Initiation Document (ICAID) has been submitted. Still waiting on status.
- Goal is to have a report by the end of the year that will document the high priority areas and follow-on actions to create new standards.