

---

## RAS December 2022 eNews

---

**RAS** <ras@ieee.org>  
Reply-To: ras@ieee.org

[If you are having any difficulty viewing this message, click here to see the mobile friendly version.](#)



### IEEE Robotics & Automation Society e-News

December 2022

#### In This Issue

In Memoriam: Peter Luh (1950-2022)

Vote Now for the AdCom Election!

Congratulations to Daniela Rus, Recipient of the 2023 IEEE Robotics and Automation Technical Field Award

Congratulations to the IEEE Fellows Class of 2023

Congratulations to Carlotta Berry, Recipient of the 2023 IEEE Undergraduate Teaching Award

RAS Member in the News: Vijay Kumar Named 2022 National Academy of Inventors Fellow

Six RAS Members Selected for Robohub's 2022 "50 women in robotics you need to know about"

T-RO: New Issue Available on IEEE Xplore

RA-L: New Issue Available on IEEE Xplore

RA-M: December 2022 Issue Now Available on IEEE Xplore

RAS Seeks Senior Reviewers for the Young Reviewers Program (YRP)

CFP: IEEE CASE 2023 in Auckland, NZ

2023 IEEE/SICE SII: Early Bird Registration Deadline Approaching

CFP: ARSO 2023 in Berlin, Germany

CFP: RA-L Special Issue on Human Modelling in Physical Human-Robot Interaction

CFP: RA-L Special Issue on Learning for Safe and Robust Control

CFP: RA-M Special Issue on Agricultural Robotics

CFP: ToH Special Issue on Haptics in the Metaverse

CFP: TMECH/AIM Focused Section on Emerging Topics

---

## In Memoriam: Peter Luh (1950-2022)

---



Peter Luh, a giant in the field of automation research and an important volunteer in IEEE, passed away on 28 November 2022. Peter worked as a Professor of Electrical and Systems Engineering at the University of Connecticut for over 40 years. Ken Goldberg, a RAS Member and the William S. Floyd Jr. Distinguished Chair in Engineering at UC Berkeley, writes the following: “Peter Luh was dedicated to raising the profile of Automation in many ways. He co-founded the IEEE Transactions on Automation Science and Engineering (T-ASE) and served as its first Editor-in-Chief, where he provided the guidance, integrity, and high standards needed to successfully launch it.”

A funeral was held on 5 December; a recording is available and can be watched [here](#); what follows below is quoted from Peter’s [obituary](#):

*In lieu of flowers, donations may be made in memory of Prof. Peter Luh to the “Prof. Peter Luh Fellowship for Graduate Student Support” at the University of Connecticut Foundation, Inc. Checks made payable to the UConn Foundation, Inc., should include the memo “Peter B. Luh Memorial” and can be mailed to:*

*The UConn Foundation, Inc.*

*Attn: Data Services*

*2390 Alumni Dr., Unit 3206*

*Storrs, CT 06269-3206*

*Fond memories and expressions of sympathy may be shared at [www.DemaineFuneralHomes.com](http://www.DemaineFuneralHomes.com) for the Luh family.*

A more detailed in memoriam article for Peter will appear in the next issue of the *IEEE Robotics & Automation Magazine*.

The RAS community extends its deepest sympathy to Peter's wife Chwenhwa and his family as we remember Peter and his many contributions to the automation community, RAS, and humanity.

---

## Vote Now for the AdCom Election!

Voting Open for the IEEE RAS AdCom Election until 20 December at 4pm ET

---



Vote today for the IEEE RAS AdCom election so we can increase last year's percentage rate of 13.8%. Your vote counts!

VOTE NOW at <https://eballot.app/ieee>

[See here for more details.](#)

---

## Congratulations to Daniela Rus, Recipient of the 2023 IEEE Robotics and Automation Technical Field Award

The IEEE Robotics and Automation Society is most pleased to announce that **Daniela Rus** has been selected as the recipient of the prestigious **2023 IEEE Robotics and Automation Award**. Professor Rus was selected "for pioneering contributions to the design, realization, and theoretical foundations of innovative distributed, networked autonomous systems." Professor Rus will receive the award at the **2023 International Conference on Robotics and Automation (ICRA)**, which will be held in **London, UK from 29 May–2 June 2023**.

Rus made the design of distributed noisy networked robot systems more efficient, an essential step in the controllability of fleets of autonomous vehicles.

An IEEE Fellow, Rus is the Andrew and Erna Viterbi Professor and director of CSAIL, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA.

[See here for more details.](#)



## Congratulations to the IEEE Fellows Class of 2023

Recognizing the achievements of its members is an important part of the mission of IEEE. Each year, following a rigorous evaluation procedure, the IEEE Board of Directors selects a group of members for elevation to IEEE Fellow. The IEEE Fellow is the highest grade of membership in IEEE. Less than 0.1% of voting members are selected annually for this member grade elevation. It is recognized by the technical community as a prestigious honor and an important career achievement.

This year, **25** RAS members have been elevated to IEEE Fellows, effective 1 January 2023.

[Click here for the full list.](#)

## Congratulations to Carlotta Berry, Recipient of the 2023 IEEE Undergraduate Teaching Award



The IEEE Robotics and Automation Society is most pleased to announce that **Carlotta Berry** has been selected as the recipient of the prestigious **2023 Undergraduate Teaching Award** “for contributions to multidisciplinary robotics education and leadership in creating a national platform to diversify STEM.”

An IEEE Senior Member, Berry is the Rose Hulman Institute of Technology Lawrence J. Giacometto Endowed Chair and Professor for Electrical and Computer Engineering, Indiana, USA.

[See here for more details.](#)

## RAS Member in the News: Vijay Kumar Named 2022 National Academy of Inventors Fellow

Vijay Kumar, a RAS Member and the Nemirovsky Family Dean of the School of Engineering and Applied Science at the University of Pennsylvania, was named a National Academy of Inventors (NAI) Fellow for 2022. RAS congratulates Professor Kumar on receiving this most prestigious honor.

Click [here](#) for more about the NAI Fellows Program and Professor Kumar's achievements.



## Six IEEE RAS Members Selected for Robohub's 2022 “50 women in robotics you need to know about”

The 2022 edition of Robohub's annual "50 women in robotics you need to know about" has honored six members of the IEEE Robotics and Automation Society, from all three RAS geographical regions!

The following IEEE Robotics and Automation Society women are included in this year's list:

1. **Kathy Colabaugh**, IEEE Robotics and Automation Society, USA
2. **Jeanne Dietsch**, Granite State Matters, USA
3. **Xiaoou Li**, Center for Research and Advanced Studies of the National Polytechnic Institute of Mexico, Mexico
4. **Pauline Pounds**, University of Queensland, Australia
5. **Karinne Ramirez-Amaro**, Chalmers University of Technology, Sweden
6. **Teresa Vidal Calleja**, University of Technology Sydney, Australia

[See here for more details.](#)





# WOMEN IN ROBOTICS YOU NEED TO KNOW ABOUT 2022

## T-RO: New Issue Available on IEEE Xplore

We are pleased to announce that a new issue of *IEEE Transactions on Robotics* (**Volume 38, Issue 6**) is now available on IEEE Xplore. Click [here](#) for the table of contents, and check out the issue now on IEEE Xplore!

## RA-L: New Issue Available on IEEE Xplore

We are pleased to announce that a new issue of *IEEE Robotics and Automation Letters* (**Volume 8, Issue 1**) is now available on IEEE Xplore. Check it out!

## RA-M: December 2022 Issue Now Available on IEEE Xplore

We are pleased to announce that the December 2022 issue of the *IEEE Robotics & Automation Magazine* on biomimetic perception, cognition, and control (**Volume 29, Issue 4**) is now available on IEEE Xplore.

Click [here](#) for the table of contents, and check out the issue now on Xplore!



## RAS Seeks Senior Reviewers for the Young Reviewers Program (YRP)

The YRP is intended to introduce young RAS members to best practices in peer review for scientific papers.

## CFP: IEEE CASE 2023 in Auckland, NZ

We are proud to announce the **IEEE International Conference on Automation Science and Engineering (CASE)** to be held in **Auckland, New Zealand** on **26–29**

Effective peer review is crucial for the scientific community, yet systematic training in peer review is often not provided. As a Senior Reviewer, you can give reviewing assignments to Junior Reviewers, and you oversee the review process in a mentor-mentee relationship. Agreeing to serve will not increase the number of papers that you review. Only papers that you have already agreed to review would be eligible for the YRP. In this way, there should be no net increase in your reviewing workload. The time you would normally spend writing a careful review would be invested instead in cultivating skills in a Junior Reviewer.

[See here for more details.](#)

**August 2023.** CASE is the flagship automation conference of the IEEE Robotics and Automation Society (RAS) and constitutes the primary forum for cross-industry and multidisciplinary research in automation. The theme of CASE 2023 is **Automation for a Resilient Society**.

#### Submission Deadlines

- Special session proposal submissions due **15 February 2023**
- Regular and special session full paper submissions due **1 March 2023**
- Workshop proposal submissions, industry paper submissions, and presentation-only paper submissions due **1 April 2023**
- Final paper submission due **15 June 2023**

[See here for more details.](#)

#### 2023 IEEE/SICE SII: Early Bird Registration Deadline Approaching

The **2023 IEEE/SICE International Symposium on System Integration (SII)** will take place in Atlanta on 17–20 January 2023.

**Early Bird registration** is now open, and the deadline is **15 December**.

#### CFP: ARSO 2023 in Berlin, Germany

We are pleased to announce the 19th **IEEE International Conference on Advanced Robotics and Its Social Impacts (ARSO)**, which will take place in Berlin, Germany on 5–7 June 2023. Contributions for papers and organized sessions are now open.

#### Submission Deadlines

- Organized session proposals due **14 Dec 2022**
- Initial paper submissions due **31 Jan 2023**
- Final paper submissions due **30 April 2023**

[See here for more details.](#)

#### CFP: RA-L Special Issue on Human Modelling in Physical Human-Robot Interaction

This special issue aims to stimulate discussion and promote collaboration between the communities of robotics and biomechanics. Contributing authors will investigate the state of the art of human modelling and present modern human modelling techniques and tools to advance research in physical human-robot interaction. The latest high-quality research results from both biomechanists and roboticists will be collected and presented.

The submission deadline is **1 February 2023**.

[See here for more details.](#)

#### CFP: RA-L Special Issue on Learning for Safe and Robust Control

This special issue solicits contributions that advance the field of learning for robust and safe control. Our interest encompasses both theoretical and empirical results which aim to show that combining machine learning strategies with model-based controllers is the key to developing stable and robust autonomous systems that are capable of adapting to dynamic environmental changes, are resilient to external disturbances, and unmodelled dynamic effects, and that behave in accordance to the theoretical guarantees of controllers.

The submission deadline is **31 March 2023**.

[See here for more details.](#)

#### CFP: RA-M Special Issue on Agricultural Robotics

#### CFP: ToH Special Issue on Haptics in the Metaverse

This special issue addresses technological progress in robotics and intelligent machine systems for smart agricultural production. Papers could address any part of the agricultural value chain including plant and animal breeding, on-farm production, post-harvest storage, logistics, packaging, and food processing. Besides on-farm food, feed and fiber production, off-farm production can be considered like fishery, forestry, and urban landscaping and maintenance.

The submission deadline is **1 February 2023**.

[See here for more details.](#)

Haptic sensations are a fundamental component of the user's immersive experience when interacting in Virtual, Augmented, Mixed, or eXtended Realities (VR, AR, MR, XR). While increasingly immersive and realistic experiences have developed at a fast pace, the emergence of a metaverse proposes new use cases where prolonged utilisation and social interactions become more frequent and effective than reality. To that end, the goal of this special issue is to present innovative cutaneous and tactile technologies as well as their use towards the metaverse vision.

The submission deadline is **31 Jan 2023**.

[See here for more details.](#)

### **CFP: TMECH/AIM Focused Section on Emerging Topics**

This focused section is intended to expedite publication of novel and significant research results, technology, and/or conceptual breakthroughs on emerging topics within the scope of TMECH; our aim is to provide the mechatronics community with rapid access to state-of-the-art TMECH publications.

The submission deadline is **6 January 2023**.

[See here for more details.](#)

### **CFP: TMECH Focused Section on Compliant Mechanisms for Mechatronics**

This focused section aims to provide an opportunity for material scientists, robotic/control engineers, and practitioners from academia or industry to present the latest theoretical and technological achievements in compliant mechanisms for mechatronics. Focus shall be placed on transdisciplinary methodological frameworks, hardware development for real-world applications, and out-of-lab experiments. Papers presenting newly emerging fields (such as robotic programmable materials) are also especially welcome.

The submission deadline is **1 March 2023**.

[See here for more details.](#)

## **Contact Details**

445 Hoes Lane  
Piscataway, NJ 08854  
USA  
or call **+1 732 562 5832**

ras@ieee.org  
www.ieee-ras.org

You are subscribed to IEEE Robotics & Automation Society e-News.  
To unsubscribe, visit: <https://LISTSERV.IEEE.ORG/cgi-bin/wa?SUBED1=MEMBERS-RAS&A=1>

445 Hoes Lane, Piscataway, NJ 08854-4141