

Candidate Information Template

CANDIDATE NAME

(Samuel) Qing-Shan Jia

CANDIDATE EMAIL ADDRESS

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CANDIDATE AFFILIATION AND ADDRESS

Tsinghua University

CFINS, Department of Automation, Tsinghua University, Haidian District, Beijing 100084, China

IEEE MEMBER NUMBER

41457911

COUNTRY OF RESIDENCE

China

HOW WOULD YOU CATEGORIZE YOUR CURRENT ORGANIZATION?

☐ Government

☒ Academia

☐ Industry

☐ Retired

☐ Other

POSITION SOUGHT

Full Professor

BIOGRAPHY

Please provide a biographical statement exclusive of your IEEE activities. (150 words maximum)

As an active member of IEEE in the past 25 years, I have served various positions in IEEE, mainly in the Control Systems Society (CSS) and the Robotics and Automation Society (RAS).

On technical activities, I chaired 1 TC and 1 Chapter in CSS, co-found 2 TCs in RAS, and was a distinguished lecturer of RAS.

On conference activities, I was deeply involved in the IEEE Conference on Automation Science and Engineering (CASE) (a flagship conference of RAS), including the student activity chair (2013), special sessions co-chair (2015), tutorial and workshop co-chair (2016), program chair (2017), program co-chair (2019, 2020). I have been a member of the Steering Committee of IEEE CASE since 2018. I was also the student activity chair of IEEE CDC 2016 (a flagship conference of CSS).

On publications, I was AE of IEEE T-AC and IEEE Control Systems Letters (publications of CSS) and IEEE T-ASE (publication of RAS). AE of IEEE CASE CEB and ICRA CEB (conferences of RAS) and CSS CEB.

I was twice appointed as member of Board of Governors of IEEE CSS, and was a member of the IEEE Internet of Things Activity Board.

IEEE ACTIVITIES

Please list your IEEE positions with dates of service.

Senior Member of IEEE (25 years of IEEE membership, 21 years of Control Systems Society (CSS) member, and 19 years of Robotics and Automation Society (RAS) member), founding co-chair of IEEE RAS TC on Machine Learning for Automation (2023-2026), founding co-chair of IEEE RAS TC on Smart Buildings (2012-2022), member of steering committee of IEEE RAS Conference on Automation Science and Engineering (CASE) (since 2018), program chair of IEEE CASE 2017, program co-chair of IEEE CASE 2019 and 2020, Member of the IEEE Internet of Things Activity Board (2016-2022), appointed Member of the Board of Governors of the IEEE CSS (2017, 2021), Chapter coordinators of IEEE CSS - Region 10 (2014-2015), Chair of IEEE CSS Beijing Chapter (2013-2023), Chair of IEEE CSS TC on Discrete Event Systems (2012-2015). AE of IEEE Transaction on Automatic Control (2015-2021), IEEE Transactions on Automation Science and Engineering (2012-2017), IEEE Control Systems Letters (2019-2021). Student activity chair of IEEE CDC 2016. AE of IEEE CSS CEB (2012-2018), IEEE ICRA CEB (since 2013), IEEE CASE CEB (2011-2018) and Editor of IEEE CASE CEB (since 2019). A distinguished lecturer of IEEE RAS (2019).

QUALIFICATIONS

What are your qualifications for this position? i.e., what makes you an ideal candidate for this position?

As an active IEEE RAS member for nearly two decades, I am familiar with several key areas governed by the RAS AdCom. On technical activities, I co-founded 2 TCs in RAS, and served as a distinguished lecturer. On conference activities, I was deeply involved in IEEE CASE (a flagship conference of RAS), serving as Program Chair in 2017, and being an active member on the steering committee since 2018. On publications, I was AE of IEEE T-ASE (a flagship publication of RAS), and served on the CASE and ICRA CEBs. On administration, I was twice appointed to the IEEE Control Systems Society Board of Governors and the IEEE Internet of Things Activity Board. My research background in automation and my training in systems engineering makes it easy for me to work with people across different disciplines. All of these makes me an ideal candidate for IEEE RAS AdCom.

MAJOR ACCOMPLISHMENTS

List the major contribution(s) (up to five) you have brought to IEEE in your previous assignments. If you have not volunteered for IEEE before, list relevant contributions you have made with other organizations or in related work experience.

1 On technical activities, I co-founded the IEEE RAS TC on Smart Buildings and TC on Machine Learning for Automation. The later one grew from a dozen founding members to more than 700 members in less than 3 years.

2 On conference activities, I provided decade-long service for IEEE CASE (a RAS conference), including the student activity chair (2013), special sessions co-chair (2015), tutorial and workshop co-chair (2016), program chair (2017), program co-chair (2019, 2020). I have been a member of the Steering Committee of IEEE CASE since 2018.

3 On publications, I served as Associate Editor for IEEE Transactions on Automation Science and Engineering (a RAS publication), and served as Associate Editor for Conference Editorial Boards of IEEE ICRA and CASE (two flagship conferences of RAS), and have been an Editor for the CEB of CASE since 2019. I served as Guest Editor for several special issues of IEEE T-ASE, including a latest one titled "Machine Learning for Optimization in Automation - in Memory of Peter Luh".

4 On administrative positions, I have contributed to IEEE governance and cross-societal collaborations by serving twice on the IEEE CSS Board of Governors, chairing a TC and a Chapter in IEEE CSS, and serving as a member of the IEEE Internet of Things Activity Board.

POSITION STATEMENT

If elected to the position, what are your plans and how will they help support the mission of IEEE RAS?

If elected to the RAS Administrative Committee, I plan to strengthen the collaboration between robotics and automation within the Robotics and Automation Society. I will achieve this by promoting joint initiatives across Technical Committees, making automation better represented in ICRA including but not limited to special sessions, and encouraging collaborative publications. I value cross-societal collaboration. I will use this administrative experience to build bridges between RAS and other IEEE societies to broaden our impact. Robotics and Automation, together we are stronger than ever.

COMMITMENT TO SERVICE

I, Qing-Shan Jia, hereby certify that if elected, I will serve in the position to which I am elected for the term of the office.