

IEEE Education Society Board of  
Governors Members-at-Large  
Nominations  
Term: 2022-2024

**Candidates:**

**Babak D. Beheshti**  
**Leonard J. Bohmann**  
**Manuel Castro**  
**Rami Ghannam**  
**Meriel Huggard**  
**John E. Mitchell**  
**Kenneth J. Reid**  
**Jun Shen**

## Babak D. Beheshti

### Biography



**Babak D. Beheshti** Babak D. Beheshti, PhD is professor and Dean of the College of Engineering and Computing Sciences (CoECS) at New York Institute of Technology.

Babak's experience in higher education spans over 33 years, where he has served as a full-time faculty member, President of the Senate, Associate Dean, and Dean. As dean of the engineering college, Babak led the college to introduction of its first PhD program in computer science, as well as continues to forge mobility and exchange programs with the world's leading universities.

Babak has served as a member of the IEEE Board of Directors (2018-19), and a member of the Board of Directors of Long Island Software & Technology Network (LISTnet). In 2020 Babak serves as a member of the Educational Activities Board and the Member and Geographic Activities Board of the IEEE. He has been a member of Publication Services & Products Board (PSPB) of the IEEE.

Babak is a recipient of the IEEE, MGA Leadership Award, IEEE Millennium Medal, the IEEE LI Section Athanasios Papoulis Outstanding Educator Award, and three IEEE Region 1 Awards, including 2008 IEEE Northeastern Region Technical Innovation Award.

Babak received his Ph.D. in Electrical Engineering at the University of Massachusetts, Dartmouth, and his master's and bachelor's degrees in Electrical Engineering at Stony Brook University.

### Involvements in IEEE and the Education Society include:

- **BOARDS/COMMITTEES:** MGA Liaison to the Educational Activities Board 2020. Region 1 Director, and Member of IEEE Board of Directors, 2018-19; Region 1 Director-Elect, 2016-17; Member and Geographic Activities Board (MGA): Representative to PSPB, 2014; Member Development Vice-Chair, 2012; Geographic Units Vice-Chair, 2009-2011; MGA SAC (Student Activities Committee): Chair, 2008-2009; Vice-Chair, 2006-2007; MELCC, 2008-2009; Potentials Advisory Board, 2008-2009. Tellers Committee: Chair, 2003-05; Member, 2001-03. RAB Student Activities Committee (RSAC): Vice-Chair, 2006-07; Member, 2003-07; Steering Subcommittee Chair, 2003-07; Student Website Contest Coordinator, 2005.
- **REGION 1:** Student Activities Committee Chair, 2014, 2003-07; Executive Committee, 2003-07; Membership Development Chair, 2002-03; Employment & Career Activities Coordinator, 2002; Industrial Relations Liaison, 2001-03; Board of Governors, 2002-07.
- **COUNCIL:** Metropolitan Sections Council (METSAC): Treasurer, 2001; Member, 2000.
- **SECTION:** Long Island Section: Senior Past Chair, 2003; Junior Past Chair, 2002; Chair, 2000-01; Membership Development Chair, 2001-03; First Vice-Chair, 1998-99; Section Vice-Chair, 1997-98; Treasurer, 1995-97; Newsletter Editor, 2000-05; Seminars Coordinator, 1999-2004.

- CHAPTER: Signal Processing Society, Chapter Chair, 1997-2003.
- CONFERENCES: The fourth International Energy and Sustainability Conference, Farmingdale State College, the IEEE Globecom, Organizing Committee, 2014. IEEE Long Island Systems, Applications and Technology Conference, 2005-2015.
- AWARDS: The IEEE MGA Leadership Award, 2014, Region 1 Technical Innovation Award, 2009. Long Island Section Charles Hirsch Award, 2008. IEEE Millennium Medal, 2000. IEEE Region 1 Award, 1997.

**Major contributions to the IEEE Education Society include:**

- In collaboration with the Region 1 Director-Elect held a series of strategic planning retreats in which a multi-year strategic direction and set of goals for the Region was developed.
- Actively participated in several BoD committees to meet specific goals set by the IEEE President for the committees
- Identified success factors from high-performing Sections based on the creation, administration and survey data analysis from all ten Regions (2010). The information is being used as the foundation for geographic units' vitality recommendations.
- Developed a 5-year strategic plan for MGA Student Activities Committee (SAC) with mission, vision, goals and objectives, providing a smooth transition for incoming SAC chair (2009). The plan aligns with MGA's vision and contains specific measurable outcomes.
- Led HKN Working Group B Transition team and completed all tasks by deadline (2009).
- Coordinated the President's Change the World Competition judging efforts with the IEEE Corporate Communications, leading to a stellar winning slate in the IEEE awards ceremony (2009).
- Successfully coordinated, with Staff, the transition of ISBIR to MGA SAC operations (2009).

**Statement**

Higher education is experiencing a rapid and unanticipated transformation. Existential threats to higher education are real and have already started changing the landscape of college and university systems across the country. The IEEE Education Society's Board of Governors, as the leading board within the IEEE is in the position of affecting change and being instrumental in guiding the direction of some of the changes taking place.

In case of my appointment to this position, one of my goals is to contribute to the IEEE Education Society on this topic. Serving as the dean of engineering in a fast-changing environment, I believe that I can provide significant contributions to this topic. As the world, and our profession navigate our way through the COVID-19 pandemic, the importance of educational activities within one's profession become significantly more important. With millions of professionals out of work, career retraining becomes a significant focus for the IEEE. Furthermore, in these turbulent times, the importance of awards and recognition elevates. Awards can be used as credentials for professionals managing their careers. I will provide my experience from the Region and IEEE Board levels to help forming a strategy to promote and expand the awards program at the society level.

## Leonard J. Bohmann

### Biography



**Leonard J. Bohmann** received his BS in Electrical Engineering from the University of Dayton in 1983, and his MS and PhD in Electrical Engineering from the University of Wisconsin in 1986 and 1989 respectively. After graduating, he accepted a position at Michigan Tech in the Department of Electrical and Computer Engineering. There he moved through the faculty ranks to Professor, serving as Interim chair for a year. Presently he is the Associate Dean within the College of Engineering.

In addition to IEEE activities, Bohmann is an active member of ASEE and ABET. He is a member of ASEE's Electrical and Computer Engineering Division (having formerly served as its President), as well as the Energy Conversion and Conservation, Educational Research and Methods, and Women in Engineering Divisions. Bohmann has been an ABET program evaluator since 2006 and presently serves on the Engineering Accreditation Commission.

Bohmann teaches courses in power systems and energy conversion. His research interests focus on the integration of renewable energy sources into power-system operations and planning. He helped develop an on-line MSEE program in the electric power area, as well as two electric power engineering certificate programs focused on providing retraining opportunities for electric utility engineers.

### Involvements in IEEE and the Education Society include:

#### Education Society Service:

- CONFERENCES: reviewer for Frontiers in Education
- PUBLICATIONS: reviewer IEEE Transactions on Education
- COMMITTEES or BOARDS:
  - Finance Committee (Jan., 2008 - Dec. 2020)
  - Chair, Finance Committee (Jan., 2011 – Dec., 2014)
  - Board of Governors (Jan., 2011 - Dec. 2020)
  - Treasurer (Jan., 2015 – Dec. 2020)
  - Education Society Representative to the EAB (Jan., 2021 - present)

#### Other IEEE Units:

Bohmann joined IEEE in 1979 and is presently a senior member. He has memberships in four of its societies: Education; Power and Engineering; Industry Applications; and Social Implications of Technology. He is active in the Power Engineering Society's Power Engineering Education Committee and is a past chair of that society's University Education Subcommittee. He received the Outstanding Engineer Award from the Milwaukee/Northern Wisconsin PES Chapter in 2001 and Michigan Tech's IEEE Student Branch Service Award in 2006. Bohmann is a member of the

IEEE Committee on Engineering Accreditation Activities (CEAA) since 2014. He is an IEEE appointee to the ABET Engineering Accreditation Commission (EAC).

**Major contributions to the IEEE Education Society include:**

My primary accomplishments have been in the financial management of the Society. I helped develop the financial operating procedures that the Education Society presently uses and I have helped develop the financial strategy for the Society as our source of funds drop due to changes in allocation from IEEE and due to the shift in periodicals to open access.

**Statement**

The biggest challenge our Society faces is providing value to our members. If elected I will work to develop new products and services that will increase that value. Presently our primary contribution to the community of scholars we serve is our conferences and our publications. Both of these are in the midst of unprecedented changes. We are shifting publications toward open-access. We have now had a year of virtual conferences. We need to embrace these changes in ways that benefit our members.

One area that could be improved is what we do to enhance the feeling of community among members of our Society. Our traditional conferences are great at doing this. But more can be done for those who do not physically attend our conferences. We will want to offer our members opportunities to both meet together at traditional conferences and to interact virtually.

## Manuel Castro

### Biography



**Manuel Castro** (M'87-SM'94-F'08) received Industrial Engineering degree and Ph.D. from the ETSII/UPM, Spain. He received in 1988 the Extraordinary Doctoral Award and the Viesgo Award, and in 1999 UNED's Social Council Award. He works in Industrial Electronics, IoT systems, Renewable Energies, and distance learning systems being involved in the development of cybersecurity and remote laboratories in Engineering Education, leading the VISIR federation.

He is Professor and Past Director of the Electrical and Computer Engineering Department at UNED and was UNED's New Technologies Vice-Rector, Information Services Center Director, and Engineering School Vice-Director. He worked 5 years in Digital Equipment Corporation as senior system engineer. He publishes technical, research and teaching books and articles for journals and conferences.

He actively participated at FIE, EDUCON, EDUNINE, TALE, LWMOOCS, IECON and ICELIE, publishing articles and chairing sessions, as well as publishing in the Transactions on Industrial Electronics and Magazine as well as being reviewer.

He is IEEE Division VI Past-Director (2019-2020), past member of IEEE Board of Directors and TAB, IEEE Education Society Emeritus President, Past Chair of the IEEE Spain Section, Past Chair and founder of the IEEE Spanish Chapter of the IEEE Education Society, Advisor and founder of the IEEE HKN Nu Alpha UNED, Counselor and founder of the IEEE UNED Student Branch. He has been awarded with the Meritorious Service Award at the IEEE EDUNINE 2017 and IEEE EDUCON 2011; the IEEE Education Society Awards: William E. Sayle Award for Achievement in Education, Edwin C. Jones, Jr. Meritorious Service, Distinguished Member and Distinguished Chapter Leadership as well as the TAAE Professional Life Award and 2020 Tomás Pollán Discipline Merit and the Nicola Tesla Chain of the IGIP International Society. Is Honor Ambassador of Madrid Convention Bureau and co-editor of IEEE-RITA.

He co-chaired the conferences LWMOOCs 2021, 2020 and 2018, REV 2016, FIE 2014, EDUCON 2010 and TAAE 2010 in Madrid, Spain, as well as EDUCON 2018 (Canary Islands, Spain) and EDUNINE 2017 (Santos, Brazil).

### Involvements in IEEE and the Education Society include:

- President Emeritus of the IEEE Education Society (since 2017).
- Past President Jr (2015-2016) and Sr (2017-2018).
- President of the IEEE Education Society (2013-2014).
- President-Elect of the IEEE Education Society (2011-2012).
- Member at large of the Administration Committee (2005–2010) and the Board of Governors (2011-2016) (2019-2021).

### Major contributions to the IEEE Education Society include:

- Chair and Founder of the Spanish Chapter (largest on the world) of the IEEE Education Society (2004-2006).
- Founder of the UNED IEEE HKN Nu Alpha chapter (2020).
- Founder of the UNED student branch (2004), Advisor (2010-2021) and Counselor of the UNED student branch (2004-2010).
- Founder of the UNED student branch Chapter of the IEEE Education Society (2011).
- General co-chair of the conferences: WEEF/GEDC 2021, EDUCON 2018 (Global Engineering Education), LWMOOCS2018 (Learning with MOOCS), EDUNINE 2017 (World Engineering Education), REV 2016 (Remote Engineering & Virtual Instrumentation), FIE 2014 (Frontiers in Education), EDUCON 2010, TAAE 2010 and ICECE 2005

### **Statement**

A rich collaborative life engaged at IEEE and other professional engineering societies bring my best reference and qualifications as I am been involved (and started and push them to sustainability) in leading Student Branch, Section, Chapters and Society, having a good overview of the IEEE activities in MGA, EA and TA as well as collaborating in other IEEE activities, (Publications, Conferences, Standards and Accreditation).

My major effort in the volunteer side of the professional societies is the management and sustainability of the organization units and activities that allow members to mature themselves to start a new leadership way, having in mind the needs of diversity accomplishments allowing to develop the majority of the members needs inside the association.

I will bring to our members, management and Society the experience and time/efforts to continue bringing my best efforts to their activities.

## Rami Ghannam

### Biography



**Rami Ghannam** is an Assistant Professor in Electronic Engineering at the University of Glasgow. He graduated from King's College with a BEng in Electronic Engineering (Summa Cum Laude). He was awarded a DIC and MSc from Imperial College London, as well as a PhD from the University of Cambridge in Electronic Engineering. Ghannam's research interests are in Photonics, Sensors and Engineering Education. He has published almost 100 articles in these fields. He held previous industrial positions at Nortel Networks and IBM Research GmbH. Ghannam was a research scientist at EPFL's PV Lab, where he worked on the device modelling of thin film solar cells. Ghannam also leads Glasgow University's Engineering Education Research Group (EERG), which focuses on developing interactive technologies for enhancing the teaching and delivery of electronic engineering concepts. He is a Senior Member of the IEEE, a Senior Fellow of RET and a Member of the IET. He also serves as the Regional Chair of IEEE's Education Society in Scotland and Chair of the IET Pedagogy in Engineering and Pedagogy TN.

### Involvements in IEEE and the Education Society include:

- Scotland Regional Chair of the IEEE Education Society (2020 – Present).
- Associate Editor of IEEE Transactions on Education (2021 – Present).
- Associate Editor of IEEE Access (2020 – Present).
- Conference Chair, IEEE 2020 Transnational Engineering Education using Technology.
- Special Session Chair, 27th IEEE Conference on Electronic Circuits and Systems, Glasgow, 2020.
- Finance Chair, 27th IEEE Conference on Electronic Circuits and Systems, Glasgow, 2020.
- Technical Programme Committee (TPC) member, 2020 UK-China Emerging Technologies (UCET) Conference.
- Technical Programme Committee (TPC) member, 2019 UK-China Emerging Technologies (UCET) Conference.

### Major contributions to the IEEE Education Society include:

Dr Ghannam organised several workshops, webinars and a conference on Engineering Education for the IEEE Education society. Major contributions include:

- Scotland Regional Chair of the IEEE Education Society (2020 – Present)
- Associate Editor of IEEE Transactions on Education (2021 – Present)
- Conference Chair, IEEE 2020 Transnational Engineering Education using Technology.
- Chair of Engineering Education Research Group (EERG) Autumn Seminar Series.
- Chair of Engineering Education Workshop, 2020 UK-China Emerging Technologies (UCET) Conference.

### Statement

I am passionate about the value of integrating research and industry into university teaching. I strive to engage my previous industrial experience with IBM and Nortel Networks in my teaching. I do this to prepare students for the engineering workplace and to expose students to “real-world” engineering problems. If elected to this position, I will endeavour to develop deeper Education-Industry partnerships, so that our engineering programmes build skills with labour market value. The IEEE Education Society is the perfect platform for the success of this undertaking and if elected to the position of Board of Governors, my goals are to:

- To increase awareness regarding the importance of innovations in electronic engineering pedagogy.
- To raise the profile of the IEEE Education Society as the primer association for all the latest best-practices in instructional and curriculum development methods in electronic engineering.
- To enlarge the technical network of professionals in engineering education.

## Meriel Huggard

### Biography



**Meriel Huggard** (M'01, SM'15) has been a tenured faculty member in the School of Computer Science and Statistics at Trinity College Dublin (TCD), Ireland since September 2000. She was a visiting Associate Professor in Electrical and Computer Engineering at Bucknell University in 2016. She holds a Ph.D. in Engineering Education and a B.A.(Mod) in Theoretical Physics from Trinity College Dublin. Dr. Huggard's research interests and scholarship in engineering education span from engineering design to the enablement of undergraduate success, while her technical interests incorporate network performance, autonomous and ubiquitous systems. Her impactful research has been supported by over \$2.5 million in competitive grant awards from international and national funding bodies, including the European Commission, Science Foundation Ireland and the Irish Higher Education Authority. She was the recipient of a Provost's Teaching Award from TCD (2003). She was a member of the Irish National Council for Curriculum and Assessment Mathematics Development Group and was an invited domain expert for an Irish Universities Quality Board project. Dr. Huggard has a broad portfolio of community engagement, including as an external expert reviewer for the European Commission and as a reviewer for a wide range of professional journals and conferences, including the Journal of Engineering Education (JEE).

### Involvements in IEEE and the Education Society include:

- PUBLICATIONS: Associate Editor, Education Society Section IEEE ACCESS (2020 - )
- COMMITTEES or BOARDS: 2019-21, IEEE Education Society Board of Governors, Member at Large; 2020 -, IEEE Education Society Publications Committee, 2014 IEEE Ireland Inaugural Steering Committee (Trinity College Dublin)
- CONFERENCES: IEEE Frontiers in Education (Dasher Awards Committee 2020-22, Reviewer 2005-2020, Session Chair '06, '07, '21), IEEE WONS (Session Chair '09, '17)
- CHAPTERS, SECTION or REGIONS: Member Region 8 (Europe, Middle East and Africa), United Kingdom and Ireland Section.
- Other IEEE Units: Member of the IEEE Computer Society and IEEE Communications Society.

### Major contributions to the IEEE Education Society include:

- Associate Editor, Education Society section IEEE Access, 2020 -
- Member at Large, IEEE Ed. Soc. Board of Governors 2019-21
- Member, IEEE Ed. Soc Publications Committee, 2020 -
- Established and led the Centre for the Principles and Practice of Programming, TCD (2003-2015).
- Active participant in the organization and technical committees of several international conferences and professional meetings e.g., IoP Damage Assessment of Structures Conference (2013), ACM SIGCSE International Committee (2015), GREENER (2019)

(FloatinG Off shoRE ENERgy Devices) organizer, associate editor of special issue of Materials Research Proceedings (2021).

### **Statement**

The Covid-19 pandemic has placed significant demands on educators. They not only had to undertake an almost overnight evolution in the ways that they engaged with and educated their students; they also had to cope with an unprecedented crisis that caused major disruption to society and everyday life.

As the world-leading organization that focuses on the unique educational needs of the electrical and computer engineering community, the IEEE Education Society is there to support its members throughout this period of dramatic evolution and change. Key amongst these challenges is to ensure that engineering both is, and represents, a truly inclusive and diverse community; increasingly reflective of the world around us.

In our large, International Society, the Board of Governors must continue to create, foster and deliver the vision and practice essential in embracing these new and exciting challenges. It must listen to members, drawing on their vision and inspiration in stimulating dialogue and formulating future planning and policy.

As a member at large of the Board of Governors I will continue to be deeply committed to enhancing the role and value of the Society globally as one of the most important contributors to the advancement and reshaping of engineering education.

## John E. Mitchell

### Biography



**John E. Mitchell**, is Professor of Communications Systems Engineering in the UCL (University College London) Department of Electronic and Electrical Engineering, London, UK. He is also Vice-Dean Education in the UCL Faculty of Engineering Sciences and Co-director of the UCL Centre for Engineering Education. Between 2012 and 2016 he was on secondment to the UCL Engineering Sciences Faculty office, where he led the introduction of the Integrated Engineering Programme a curriculum development of the majority of undergraduate programmes in the faculty that now takes in over 1000 students per year. The team that led this major revision was awarded the UK Higher Education Academy, Collaborative Award for Teaching Excellence (CATE) in 2018. In has previously been awarded the UCL Provost's award for teaching and has published on curriculum development with engineering education in a number of leading journals and conferences. Professor Mitchell is a Chartered Engineer, Fellow of the Institution of Engineering and Technology (IET), Member of the Board of Directors of the European Society for Engineering Education and Principal Fellow of the Higher Education Academy.

### Involvements in IEEE and the Education Society include:

- Senior Member of the Institute of Electrical and Electronic Engineers (IEEE)
- 2019 - to date: Editor-in-Chief IEEE Transactions on Education.
- 2020 - to date: Associate Editor of the Education Society's section of IEEE Access.

### Major contributions to the IEEE Education Society include:

- As Editor-in-Chief, led and enhanced the IEEE Transactions on Education including guiding it through periodic review, increasing page count and overseeing the transition from dedicated administrative support to IEEE Central Services. The transactions are now the major revenue generator for the society.
- Help establish the Education society's section in IEEE Access.
- Developed author resources as part of the relaunch of the Education Society's web presence.
- Guest presenter as part of the IEEE Education Society Webinar Series.
- Board member of similar organisations in the UK and Europe - Council Member of the UK Engineering Professors' Council (EPC), Board member of the European Society of Engineering Education (SEFI).

### Statement

I would be delighted to have the opportunity to continue to serve the Education Society as a member at large. It is vital that the constituent parts of the society work together to ensure that there is a really benefit of membership and engagement with the community the society aims to serve. Since becoming Editor-in-Chief of IEEE Transactions on Education I have sought to ensure that its primary aim is serve the community of the society by ensure that the Editors work

together and that Transactions supports the flagship conferences of the Society. I know this is a vision I share with all others on the board of governors and is something I would like to be actively involved in enabling. As a research led organisation we should ensure that established and early career researchers alike are supported to submit to our conferences, attend our webinars, draw on our support and publish in our journals. Ensuring that the right resources and facilitation is available to everyone must be central to our mission and if elected I look forward to working with others and drawing on the resources, I have available to me to ensure that we provide such an environment.

## Kenneth J. Reid

### Biography



**Kenneth J. Reid** is the Associate Dean and Director of Engineering at the R. B. Annis School of Engineering at the University of Indianapolis and an Affiliate in Engineering Education at Virginia Tech. He and his coauthors were awarded the Wickenden award (Journal of Engineering Education, 2014) and Best Paper award, Educational Research and Methods Division (ASEE, 2014). He was awarded an IEEE-USA Professional Achievement Award (2013) for designing the B.S. degree in Engineering Education. He is a co-PI on the “Engineering for Us All” (E4USA) project to develop a high school engineering course “for all”. He is active in engineering within K-12, (Technology Student Association Board of Directors) and has written multiple texts in Engineering, Mathematics and Digital Electronics. He earned a PhD in Engineering Education from Purdue University, MSEE from Rose-Hulman Institute of Technology, and a BSCEE from Purdue. He is active in IEEE and ASEE, is a Senior Member of IEEE, and a Member of Tau Beta Pi and Eta Kappa Nu.

### Involvements in IEEE and the Education Society include:

- IEEE-USA Precollege Education Committee / STEM Literacy Committee: 2000-2018
- Vice-chair: 2003-04, Chair 2005-06
- IEEE Region IV Precollege Activities Chair, 2000-05
- Central IN Section: 2000-06
- Secretary 1997, Vice-chair 1998, Chair 1999-2000
- Frontiers in Education: participant, reviewer: 1996-2021
- (Other conferences supported by IEEE Education Committee as well)
- Lead efforts toward constitution and bylaw revision (IEEE Central Indiana Section Constitution & Bylaw Committee, 2004, Technology Student Association Bylaw Committee, 2018-19)

### Major contributions to the IEEE Education Society include:

- Participated in the development and dissemination of the IEEE Teacher In Service (TISP) program, including organizing workshops for both IEEE volunteers and teachers in the Indianapolis area, developing and presenting with Engineering Education students in the Dominican Republic (2005-2010).
- Designed and implemented the first B. S. Engineering Education degree in the nation at Ohio Northern University; I received an IEEE-USA Individual Professional Achievement Award in 2013 for this and other STEM-focused efforts.
- Published and presented at IEEE Education Society conferences from 1996-2021, with a focus on Frontiers in Education. I review and publish multiple papers yearly and actively attend, as I believe FIE to be the conference where dissemination is most effective.
- As Chair of the IEEE Central Indiana Section, I co-developed and implemented an annual Senior Member drive, encouraging IEEE members to upgrade their membership and become more involved.

- For similar organizations, I have led efforts to review and develop strategic plans and constitution and bylaw revisions when necessary.

### **Statement**

I sincerely believe in giving back to our profession, and have a strong interest in systematically introducing engineering into the pre-university, K-12 level, and building successful programs to see students succeed in engineering at the university level. As we continue to emerge from a pandemic and become a more interconnected, international community, and as we identify issues on a global scale that are ready for an engineering solution, I firmly believe the IEEE Education Society is in a solid position to make a difference. I've attended Frontiers in Education for decades, and believe it's the best means for dissemination within the Engineering Education community. The conferences sponsored by the Society are outstanding. Looking beyond conferences, I believe the infrastructure exists within the Education Society to affect positive change. The Society has a suite of publications and resources in place, and a strong record of achievement. If elected, I will work to help the Education Society 1) maintain its relevance, 2) expand the reach and diversify conferences and publications, 3) work toward systemic and lasting differences in pre-university, K-12 and undergraduate education in engineering and 4) work within the Society to ensure it remains strong, effective, and fiscally sound. I believe in the mission and share a passion for engineering education, and would be honored to serve in this role.

## Jun Shen

### Biography



**Jun Shen**, was awarded PhD in 2001 at Southeast University, China. He held positions at Swinburne University of Technology in Melbourne and University of South Australia in Adelaide before 2006. He is an Associate Professor in School of Computing and Information Technology at University of Wollongong in Wollongong, NSW of Australia, where he had been Academic Program Director, Head of Postgraduate Studies, and Chair of School Research Committee since 2014. He was visiting professor at RELATE lab at MIT in 2019. He is a Senior Member of three institutions: IEEE, ACM and ACS. He has published more than 200 papers in prestigious journals and conferences in CS/IT areas, in particular on e-learning topics. His expertise includes learning technologies including smart OER, MOOC and cloud computing as well as Big Data. He has been Editor, PC Chair, Guest Editor, PC Member for numerous journals and conferences published by IEEE, ACM, Elsevier and Springer. A/Prof Shen is also a current member of ACM/AIS Task Force on Curriculum Review for Masters of Science in Information Systems (MSIS 2016). Since 2006, A/Prof Shen has been program director of one of the largest Masters in ICT offerings in Australia. He has been a member of various levels Education Committees overseeing curriculum design, course assessment and promotion of new pedagogical approaches. He served as chair and vice-chair of Education Chapter of IEEE NSW section. His current research in smart education is funded by Australian Research Council. So far, he had been funded 1.5M AUD research grants in learning technologies area.

### Involvements in IEEE and the Education Society include:

- CONFERENCES: General Chair of TALE 2021, PC Chair for TALE 2020, Track Chair for IEEE SCC 2020, AE of ICIS 2019, Education Track Chair of PACIS 2019, Publication Chair of IEEE TALE 2018, Sponsorship chair of ICSOC 2018, Associate Editor for Digitization of ECIS 2019. PC Chair of CBD 2017, ICCMS 2018. Chair of IEEE Conferences on Service Computing and Applications (SOCA 2010), and IEEE Semantic, Knowledge and Grid Conference (SKG 2013), PC Member of 270+ IEEE sponsored conferences since 2003.
- PUBLICATIONS: Associate Editor of IEEE TC affiliated Journal of Web Services Research (SCOPUS listed), International Journal of Cloud Computing (IJCC), and EBM of other 9 journals including Journal of Distance Education Technologies, Regular reviewer for IEEE magazines and journals including IEEE Transactions on Learning Technologies
- STANDARDS: ACM/AIS Task Force on Curriculum MSIS2016, which is mirroring IEEE CS 2013 and IS 2012.
- COMMITTEES or BOARDS: IEEE Technical Committee on SMC
- CHAPTERS, SECTION or REGIONS: Chair of IEEE Education Chapter of Australia's NSW Section between 2009 and 2014, and resumes as vice chair in 2018-2020. Promotional Chair of NSW Chapter since 2021.
- Other IEEE Units: Various organization roles of IEEE sponsored top conferences.

### Major contributions to the IEEE Education Society include:

- I have been Chair of Education Chapter of NSW Section of IEEE for more than seven years; I also helped to promote EdSoc events, membership outreach, conference organization, publications activities, esp. within Asia Pacific, (for example chairing TALE as organising chair, publication chair, PC chair and general chair continuously)
- I had been recognized by IEEE Education Society Outstanding Leadership Award in 2012;
- I have been invited to serve on a task force of ACM/AIS curriculum review; by which I co-organised education panels at many prestigious conferences. The final product of this effort, in late 2016/early 2017, has become a mirror standard model for CS/IT curriculum at postgraduate level other than IEEE CS 2010 and IS 2012, which are both for undergraduate degree.
- I have published top papers in IEEE Transactions and conferences in education and learning technologies, and also in emerging areas such as Big Data, bioinformatics; and I am conducting funded projects with support from very competitive research grant sources by launching <http://mlass.life> website for life long microlearning.
- I have been promoting modern education pedagogies with evident leading roles in various activities, by having overseen Australia's largest ICT postgraduate programs for more than 20 years through IEEE EdSoc channels.

### **Statement**

The Education Society has been striving to make a splash within IEEE context for many years. But quite often engineers and academics in EE and related areas overlooked the society's outstanding work in shaping engineering education around the world. With the boom and wider acceptance of Open Education Resources (like MOOC) and the modern paradigms such as mobile and cloud computing, the education sector is changing and will change in an even more drastic pace. With its standing and long history, IEEE Education Society should reinforce its position in leading and unifying the challenging revolution efforts in this area, by stepping out to reach other societies within or outside IEEE. The Education Society should not be deemed as an old-fashioned organization, which only concerns a narrow field or focused in certain regions. Instead, the Society should promote itself as a sponsor and leader in many disciplines and worldwide regions, particularly in the developing countries in Asia-Pacific or Africa and South America, while keeping its focus on education matters. If I am elected to the position, I will take advantages of my wide connections with sister organizations and experiences in IEEE/non-IEEE academic activities to make a 'new splash'. To achieve that, the first task would be a refreshed recognition of the Society's new role and the stronger awareness of the Society's existence among IEEE members. This is extremely important to consolidate learning technologies in the new normal world after pandemic.