

IEEE EDUCATION SOCIETY ELECTION
For Election of Members-at-Large to the Board of Governors
For a Three-Year Term 1 January 2017 – 31 December 2019



VICTOR FREITAS DE AZEREDO BARROS (GSM'14) Ing.-Paed IGIP, is Professor at International Institute of the Engineering Education. He is Researcher at Algoritmi Centre/University of Minho, Portugal; University of São Paulo (USP); Mackenzie University; Pontifical Catholic University of Goiás; Goiás Federal Institute; Amapá Federal Institute and Researcher of Catarinense Federal Institute. He is Editor-in-Chief of Brazilian Journal “Cadernos de Educação, Tecnologia e Sociedade” and Board Editorial of *Journal of Information Systems and Technology Management (JISTEM)*. He is Associate Editor of *Directory of Open Access Journals (DOAJ)*. Since 2012 he is Executive Secretary of Science and Education Research Council. He is Editorial Chair of the Safety, Health and Environment World Congress; International Conference on Engineering and Computer Education; World Congress on Communication and Arts; World Congress on Systems Engineering and Information Technology and Editorial Chair of the International Conference on Engineering and Technology Education. He is Member of the Research Team in Information Systems and Technologies for Transformation of Organizations and Society; Applied Computing; Interaction and Food Plants, Science Teaching; Education, Management and Environment and member of the research team of Center for Studies and Research and Engineering Education. He has more than 110 papers published in several congresses and he has organized more than 30 congresses around the world.

IEEE Activities:

CONFERENCES: Prof. Victor Barros was Publication Chair of all International Conferences of COPEC with agreements with IEEE; he has spoken in more than fifty conferences around the world.

PUBLICATIONS: Has more than sixty scientific papers published in different countries, including conferences and journals in Portuguese, Spanish and English languages. He has been reviewer and editor of many international journals too.

STANDARDS: He has created the standards of submission papers for many international journals and conferences.

CHAPTERS, SECTION or REGIONS: Portuguese Chapter of IEEE Computational Intelligence Society; IEEE Portugal Education Society Chapter.

Qualifications: Along his accomplished career as Computer Engineer Professor he was Publication Chair of many proceedings and Editorial Director of many Journals around the World. He is Member of Science and Education Research Council (COPEC); International Council for Engineering and Technology Education (INTERTECH), World Council on Systems Engineering and Information Technology (WCSEIT); Safety, Health and Environment Research Organization (SHERO) and Member of World Council on Communications and Arts (WCCA). He has a large national and international experience as well as serving COPEC and others council and center of research what makes of him a good candidate for the position.

Major Accomplishments: As Publication Chair of multiple conferences, member of many councils and research teams and Editorial Director of many Journals, I seek disseminating the importance as a global research to enhance science and technology for the betterment of humanity and for the betterment of teaching engineering in a global scale.

Statement: I appreciate this opportunity to present myself for all the members. For me, it would be a great honor to collaborate and provide my services to IEEE-EdSoc as adviser in the Board of Governors. I intend to advance the work of the organization to expand educational opportunities for engineering teachers. I am deeply committed to the betterment of engineering education along with the mission of educating and spreading awareness of the IEEE-EdSoc in all the conferences organized by me and all journals that I am Editor or Reviewer. My biography and contact information is in www.linkedin.com/in/vfbarros for your reference.



TONY MACIEJEWSKI (S'82-M'87-SM'00-F'05) received the B.S., M.S., and Ph.D. degrees in Electrical Engineering in 1982, 1984, and 1987, respectively, all from Ohio State University. In 1985-1986 he was an American Electronics Association Japan Research Fellow at the Hitachi Central Research Laboratory in Tokyo, Japan. From 1988 to 2001 he was a Professor of Electrical and Computer Engineering (ECE) at Purdue University. He is currently a Professor and Department Head of ECE at Colorado State University.

Maciejewski's research and teaching interests center on kinematically redundant robots, especially for fault-tolerant systems. He has co-authored over 250 publications in journals, books and conferences. His commitment to education resulted in his receiving four separate teaching awards and multiple NSF education grants, including the only Revolutionizing Engineering Departments (RED) grant awarded to an Electrical and Computer Engineering Department. His research has been supported by NSF, Sandia National Laboratories, DARPA, NASA, National Imagery and Mapping Agency, Missile Defense Agency, Non-lethal Technology Innovation Center, NEC Corporation, Caterpillar, AT&T, H-P, Intel, Wolf Robotics, and TRW.

IEEE Activities:

Region 5 Society Liaison (2016-2017)

Awards Board: Medal for Environmental & Safety Technologies (2015; Chair 2016)

IEEE SMC Society Activities:

BoG member (2011-2013)

Technical Program Committee: SMC (2005-2011)

Associate Editor: *IEEE Transactions on Systems, Man, and Cybernetics* (2003-2011)

IEEE RA Society Activities:

Fellow "For contributions to the design and control of kinematically redundant robots"

Vice-President for Finance (2004-2006), (2012-2015)

Awards Nominations Committee Chair (2014)

Parliamentarian (2012-2014)

Fellow Nominations Committee Chair (2013), Member (2008, 2012)

Fellow Evaluation Committee (2010-2011)

AdCom member (2000-2004)

Finance Board member (2002-2006)

Publications Board member (2002-2006)

Constitution and Bylaws Committee Chair (1996-1999), Member (2011)

Secretary (1996-1999)

Technical Program Committee: IROS (10 years)

Technical Program Committee: ICRA (13 years)

Technical Program Chair: ICRA 2002

Technical Co-Chair: ICRA'97

Associate Editor: *IEEE Transactions on Robotics and Automation* (1998-2003)

Qualifications: Because of my broad experience with other Society's conferences, publications, awards, and finance functions, I believe that I have a unique perspective to bring to the Education Society that can represent its membership to the fullest. Having received the 2014 Robotics and Automation Society Distinguished Service Award is evidence of my long-term commitment to serve IEEE and its technical societies. I am also active in Membership and Geographic Activities (MGA), as seen by my current role as Society Liaison for Region 5, and so can facilitate interactions with MGA.

Major Accomplishments:

1) Vice President for Financial Activities: I was instrumental in working with the Society presidents to create the first business plan at a time of great uncertainty within IEEE and when it was difficult to balance the goals of the Society with the strict financial rules for the use of its reserves.

2) Program Chair of the 2002 IEEE Int'l. Conference on Robotics and Automation: I implemented a number of innovative features for the review process that resulted in higher quality reviews, lower average reviewer loads, and reduced author complaints.

3) Administrative Committee Member: I took my responsibilities as a representative of the Society's membership very seriously, and was actively engaged in its initiatives, particularly in the areas of publications and conferences to assure that the use of financial resources was in line with the goals of the membership.

4) Fellow Nomination/Evaluation Committee: I worked tirelessly to provide fair and unbiased evaluation of fellow candidates based on verifiable criteria and implemented a procedure to ensure a more equitable distribution of nominees that included both geographical and gender diversity.

Statement: The IEEE Education Society is the premier organization that focuses on the unique educational needs of the electrical and computer engineering community. I am committed to continually improving the quality of its activities and increasing its impact on the community, and society in general. Some areas that I believe the society should focus on include: providing outreach for more student involvement, increasing our collaborations with other related societies, and providing leadership to position the Education Society as a solution to the educational challenges that are of global importance. I believe that IEEE as a whole is currently in a precarious position and must deal with decreasing membership that is due to a relative decline in students pursuing electrical and computer engineering, which is related to an inaccurate perception of our profession by the general public. The Education Society can play a pivotal role in addressing this issue. Because of my broad experience with conferences, publications, and finance functions, I believe that I have a unique perspective to represent its membership on the Board of Governors in order to achieve these goals.



KAI PAN MARK (GSM'07-M'12) I was born and educated locally in Hong Kong. Currently I am serving as the Associate Director (e-Learning) of Information Technology Services Centre and Adjunct Assistant Professor of the Computer Science and Technology Programme at the Beijing Normal University – Hong Kong Baptist University United International College (UIC), located in the neighbouring border town of Zhuhai, China.

My teaching and research interest includes the effective learning and teaching of information technology subject in the general education curriculum for non-engineering major students. I am keen on applying educational technologies to bring in engaging learning experience for undergraduate and postgraduate students. My work has been published in IEEE Education Society conferences (FIE and TALE), and I was the recipient of the New Faculty Fellow in FIE (2010) and IEEE Education Society Student Leadership Award (2010).

I have been an active volunteer in an IEEE Teacher in Service Program (TISP) project in Hong Kong to provide assistance and support to science and technology education in rural small schools. This typically includes daily commuting school children along the frontier border area between Hong Kong and mainland China. The Hong Kong Chapter was presented with the Chapter Achievement Award in 2012 in recognition of the outcomes of our TISP project.

IEEE Activities:

CONFERENCES:

IEEE International Conference on Teaching, Assessment and Learning for Engineering (IEEE TALE) - General Co-Chair (2015), Publicity Co-Chair (2013), Local Arrangements Chair (2012)

STANDARDS: P1876 Working Group, Member (2013-)

COMMITTEES or BOARDS: Chapters Committee - Vice Chair (2012-2013); Co-Chair (2014-Present)

CHAPTERS, SECTION or REGIONS: IEEE Education Society Hong Kong Chapter - Vice Chair (2007-2012); Chair (2013-2014); Past Chair (2014-Present)

Qualifications: My unique strength in the position is the knowledge and connection in extending IEEE Education Society to the Greater China community and developing countries in Region 10.

I have been serving in IEEE Education Society for almost 10 years since I was a graduate student. Over the past years, our Hong Kong Chapter has played a significant role in extending IEEE Education Society's interest and service to the mainland China and southeastern Asia. I have taken part in two major initiatives include the TISP programme for rural schools' cross-border students in Hong Kong - mainland China boundary; and the successful organization of IEEE TALE 2015 conference in Zhuhai, China (the first IEEE Education Society conference in mainland China).

As an ethnic Chinese in Hong Kong, I am able to identify the needs of our members and the community in mainland China and to design and implement customized solutions to serve the Greater China community and Region 10. My employment in UIC, a Hong Kong - mainland China joint venture University in mainland China further strengthens my role between the IEEE Education Society, Hong Kong Chapter and the mainland Chinese academic community.

Major Accomplishments:

1. At the local level, I have served in the Hong Kong Chapter of the IEEE Education Society (Vice Chair 2007-2012; Chair 2013-2014; Past Chair 2014-Present). The Hong Kong Chapter received the Chapter Achievement Award in 2012 in recognition of the proven results in spreading IEEE Education Society's interests in China and Southeast Asia.
2. At the international level, I have served in the Chapters Committee of IEEE Education Society (2012-Present), and as a member-at-large in the Board of Governors (2014-Present)
3. I am an active volunteer in the IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE) conference since its initial launch in 2012, serving in capacities e.g., General Co-Chair (2015), Publicity Co-Chair (2013), Local Arrangements Chair (2012).

Statement: I am particularly interested in our Region 10 community's needs and the Generation "Y"'s needs. Specifically, my focus will be:

1. Expanding IEEE Education Society's presence in Region 10, particularly in Greater China area and ASEAN countries;
2. Strengthening IEEE Education Society's service to young faculty members and student member;
3. Promoting and supporting local chapters to deliver outreach programmes to the less privileged.



SENTHILKUMAR MEHALINGAM (M'14-SM'15) is the webmaster for Florida A&M University and a full stack software engineer. He is a senior member of Institute of Electrical and Electronics Engineers (IEEE), member of Association for Computing Machinery (ACM) and Australian Computer Society (ACS). He has worked for the Department of Motor Vehicles in Florida and CapGemini India Consulting. He received his Bachelor's degree in Computer Engineering from South Gujarat University, India and graduate degree in Computer Science from Binghamton University. He has 10 years of experience working as a software engineer.

IEEE Activities:

CHAPTERS, SECTION OR REGIONS: Webmaster for IEEE Tallahassee Area Section since Jan. 2016, IEEE Power and Energy Section since Jan 2015

Qualifications: My background as a webmaster and full stack software engineer at an Historically Black College and University (HBCU) for more than 6.5 years allows me to bring diversity and technical background to the Board. As an IEEE senior member, I understand the need for providing professional development opportunities for my peers. As the webmaster for IEEE Tallahassee Area Section and IEEE Power and Energy Section, I disseminated information about meetings and other section events via the website. Hence, I understand the need for distributing knowledge amongst the community which is a main aim for the Education Society.

Major Accomplishments: I am currently the webmaster for IEEE Tallahassee Area Section, IEEE Power and Energy Section. I disseminated information about section meetings and other section events via the website.

I am working for Florida Agricultural & Mechanical University <http://www.famu.edu> where I ensured the root domain <http://famu.edu> of the university's website was functional.

Created appropriate error handler pages so that end-users receive a more useful message when our university's website addresses are mistyped by end-users.

Added auto-complete feature for the Search option on the university's home page and interior pages. This allowed students, professors, alumni, prospective students to search for departments and information more easily on our university's website.

Created a Rich Site Summary (RSS) feed on the university homepage (<http://www.famu.edu>) and interior university webpages (such as <http://www.famu.edu/students>, <http://www.famu.edu/academics>) for displaying events (http://www.famunews.com/?page_id=161) from Famunews.com (<http://www.famunews.com>). This allowed all students, administrators, alumni, professors and staff to be aware of the events conducted at the university from the university's homepage itself.

Implemented caching for the Rich Site Summary (RSS) news and event feeds so that access to the news webserver was minimized and load times for our university main webpage (<http://www.famu.edu>) and interior university webpages (such as <http://www.famu.edu/students>, <http://www.famu.edu/academics>) were minimal.

Statement If elected as a Board of Governors member at large, I will support all activities pursued by the organization to the best of my ability in collaboration with fellow members. During my tenure, I will work towards spreading awareness about IEEE Education society in student and professional communities.

I will strive to do the following:

- a) Foster more collaboration between industry and academia in organizing events including faculty summits and technical talks etc.
- b) Explore ways for increased participation of under-represented sections of the society.
- c) Improve the awareness of and support for pursuing meaningful careers amongst the student community.
- d) Define and evangelize the value that IEEE Education Society can bring to industry professionals thereby encouraging collaborations and exchange of ideas.

I appreciate the honor of being nominated for this position in this election and look forward to continuing my contributions towards IEEE Education society, regardless of the outcome.



ROB REILLY (AM'01-M'02-SM'03) holds a Doctoral degree and Bachelor's degree from the University of Massachusetts (USA), and a Master's degree from Springfield College (Massachusetts USA). He has been a computer science teacher at several academic institutions for over 30 years where he has been involved with teaching and research into pedagogy (teaching models). Some highlights of his career include: post-doctoral service in the Office of Information Technologies at the University of Massachusetts; several years as a Researcher at the Institute of Intelligent Systems at the University of Memphis (Tennessee USA); and 6 years of service as a Visiting Scientist at the MIT Media Lab during which time he received several large National Science Foundation (NSF) grants and 2 IEEE Foundation grants. He retired in 2011 and is now able to dedicate much more of his time to IEEE activities.

IEEE Activities:

COMMITTEES or BOARDS: Director, IEEE Board of Directors (2015-2016 Division VI Director 2015-2016); Member, Geographic Unit Operations Committee, IEEE MGA 2016; Member, Student Activity Committee, IEEE Member and Geographic Activity Board (2013); Member, Technical Activities Board (TAB 2015-2016, 2011-2012); Member, TAB Awards & Recognition Committee (2010-2012); Member, MGA's Strategic Direction and Environmental Assessment Committee (2010); Member, IEEE EAB's University Coordination Committee (2012); Member, EAB's Pre University Committee (2007-2008); IEEE-USA: Liaison to AAES (2013-present); IEEE-USA Liaison to UPADI (2013-present).

REGION 1: Member, Executive Committee (2013); Chair, Student Activity Committee (2013); Member, Strategic Planning Committee (2007-2009).

REGION 9: Chair, ad hoc committee, Engineering for the Americas, 2015-present.

SECTIONS/CHAPTERS:

Boston Section: Chair, Education Society Chapter (2012-2014, 2002-2004); Member, Executive Committee (2003-2004); Chair, Distinguished Member Award Committee (2003-2004).

Berkshire Section: Section Chair (2008); Executive Committee Member (2005-2007).

SOCIETIES:

Education Society: Senior/Junior Past President (2013-2016); President (2011-2012); Secretary (2009-2010); Chair, Chapters Committee, (2003-present); Member, Board of Governors (2005-present); Junior Past President (2013-2014).

Computer Society; Member, Board of Governors (2014-2016); Vice Chair, Member and Geographic Activity Board (2012-present); Chair, Award & Recognition Committee (2011-present); Member, Awards Committee (2011-present); Chair, Computer Science & Engineering Teaching Award Committee (2010-present); Chair, Taylor Booth Award Committee, (2010-present).

Technology & Engineering Management Society; Chair, Awards Committee (2015-present).

AWARDS: IEEE Computer Society's Golden Core Award (2015); IEEE EDUCON Meritorious Service Award (IEEE Education Society 2014), Nikola Tesla Chain (IGIP 2012); IEEE Leadership Award (IEEE MGA 2011), IEEE William Sayle Award for Achievement in Education (IEEE Education Society 2010), IEEE Larry K. Wilson Transnational Award (IEEE MGA 2006), IEEE Edwin Jones Meritorious Service Award (Education Society 2006), IEEE Distinguished Contributions in a Pre-College Environment (Computer Society 2003).

CONFERENCES: Fathered the Education Society's EDUCON conference, which is centered in the Middle East, eastern Europe, and northern Africa; fathered the Education Society's TALE conference, which is centered in southeast Asia

PUBLICATIONS: Guest Editor, *IEEE Transaction on Education* (November 2006, November 2008); Editor, *News&Notes*, IEEE Education Society, 2003-2010; author of over 100 technical articles and popular press articles.

Qualifications: I have been an EdSoc leader and worked as long and as hard as anyone in the Education Society since I became a member of the Board of Governors 13 years ago - in 2003. I have been active in practically every area of the Education Society, and, I have created several meaningful activities.

Major Accomplishments:

1. Chapters: On my watch we have grown from 9 Chapters to 72 Chapters. I was directly involved in the day-to-day creation process of 95% of our Chapters.
2. Major Conferences: I worked with other EdSoc leaders to father 2 of our 3 major conferences – EDUCON (Middle East, eastern Europe, northern Africa) and TALE (southeast Asia).
3. Student Activity Committee: I led the creation of our Student Activity Committee and the subsequent creation of the Technology and Engineering Education (ITEE) publication, a student-only peer reviewed journal.
4. Webmaster: I created the EdSoc's Web site in 2003 from scratch, worked with all EdSoc officials to populate the 50+ page. And I managed the Web site until our new site was deployed in 2016. Now I continue to support the transition with the new Webmaster.
5. As EdSoc President: As president I empaneled a committee to review and suggest revisions to our awards policy; those recommendations have been implemented. I led the creation of the Chapter Leadership Award, the Outstanding Chapter Award and the Student Leadership Award. I led the initiative to rename 2 awards for past EdSoc leaders - Jones and Sayle awards. I worked-with the EdSoc Treasurer to establish a process through which the EdSoc's annual budget is created.

Statement: As EdSoc VP for MGA Board, I will focus on:

- Chapter of the Future: The function of a chapter has radically changed over the past 20 years. We must now focus on how we can deliver our domain knowledge through our Chapters as well as deliver professional skills (soft skills) to our members.
- EdSoc Members Not in a Chapter: We have members in Sections where there is no EdSoc Chapter; we must address the issue of delivering valuable knowledge to these members as well as to EdSoc members who are in a Section that has an EdSoc Chapter but, due to geographical distance, cannot be serviced by their Chapter!
- EdSoc Booth at the FIE Conference: We must have an EdSoc booth in the vendor area at our FIE Conference! Even if we do not attract new members by having a booth at the FIE Conference, we can surely enhance our personal relationships with our members, which will enhance members' loyalty.
- 2015 Member Segmentation Survey: Every 4 years the IEEE surveys the entire IEEE membership. We must analyze the results of this survey and determine how we can apply those results for the benefit of EdSoc members.



REBECCA STRACHAN (M'15) is Associate Dean of Business and Engagement and Professor of Digital Technology and Education at Northumbria University (<https://www.northumbria.ac.uk/about-us/our-staff/s/rebecca-strachan/>). She investigates the exploitation of digital technologies to improve day to day living, including improving network performance for end users and optimising data mining techniques. Recent achievements in learning and teaching focus on technology enhanced learning, development of pathways to open up access into higher education and innovative approaches to active and authentic learning. She is a keen advocate of partnership working and leads on the university's digital degree apprenticeship programme. She is also the lead for Think Physics, a major widening participation programme that works with young people, particularly females,

to encourage them to consider a career in science, technology and engineering (www.thinkphysics.org). She is on the regional Digital Catapult steering group and Dynamo Board. At national level she is recognised in the education and computer science communities, as an HEA fellow and member of CPHC. Internationally she is a member of IEEE and ACM and recently led the EU Tempus funded IMPRESS project aimed at improving student services across higher education in the Ukraine (www.impress-eu.com) working with the Ukrainian Ministry of Education and Science and four leading universities.

IEEE Activities:**CONFERENCES:**

IEEE Frontiers in Education – reviewer for 2016 conference

IEEE Computer Science and Electronic Engineering Conference (CEEC) – reviewer for 2012 conference

IFIP/IEEE International Symposium on Integrated Network Management - reviewer for IM99 (Boston, USA)

CHAPTERS, SECTION or REGIONS: Member of UK Chapter

Qualifications: I am a Professor of Education and Digital Technologies and a senior academic with a MSc and Ph.D. in computer science and a professional diploma in teaching and learning (<https://www.linkedin.com/in/becky-strachan-64333140?trk=hp-identity-name>). I have held the position of Associate Dean Learning and Teaching and have been a leading figure in enhancing the student experience in more than one higher education institution. I have contributed to education in engineering at national level. For example I led on our university's contribution to the UK Engineering Council's Engineering Gateways Practice Transfer project funded by the National HE STEM programme. This included mentoring of other universities and coordination of our contribution to the project's main output, a toolkit for universities publicly available and aimed at universities across the UK considering offering an Engineering Gateways programme (see <http://gatewaystoolkit.engc.org.uk/>). I was awarded a teaching fellow at Sheffield Hallam University and have been internationally recognised for my work on learning and teaching. For example, my team was awarded the Highly Commended Paper by Emerald for the "Design of educational systems for work based learning (WBL): the learner experience", Lalith Liyanage, Rebecca Strachan, Roger Penlington, Bidy Casselden, (2013) Higher Education, Skills and Work-Based Learning, Vol. 3 Iss: 1, pp.51-61.

Major Accomplishments: A recent member of IEEE, I am a senior academic with expertise in education and learning technology. My work on innovating teaching practice has culminated in the last 3 years with two major educational projects: IMPRESS (<http://www.impress-eu.com>) and Think Physics (<http://www.thinkphysics.org>) attracting external funding of over £2 million. The former is an EU Tempus Structural Measures project to improve the student experience across Ukraine. Partners included the Ministry of Education and Science and four of the leading classical universities in the Ukraine. The latter is aimed at expanding the uptake of physical sciences, technology and engineering by females and other underrepresented groups. Working with children from 4-18, it uses a partnership approach involving industry, professional bodies, education providers and science and education museums to provide a sustained and holistic approach to engagement with young people and their support network. I have successfully pioneered online delivery and assessment approaches and implemented them across a faculty postgraduate portfolio. This was achieved despite some staff skepticism through a combination of shared good practice and mentoring. I have also worked with a number of different employers to open up opportunities to higher education through apprenticeships and work based learning.

Statement: I am keen to support opening up pathways to higher education in the engineering and computer science disciplines particularly to those from under represented areas such as females. I can build on my experience to date of supporting this through Think Physics, apprenticeships and work based learning to explore how good practice can be shared more widely and contribute to the aims of the IEEE Education Society.

Through Think Physics and Athena Swan University group, I have a strong appreciation of the role of women in IEEE related disciplines and associated issues such as unconscious bias. I would be keen to explore how IEEE Education can support a better gender mix and greater diversity within its related sectors.

Finally I believe that we have a great opportunity with technology to transform our educational practice. In the UK, HEFCE discussed three levels of benefits from technology; efficiency, enhancement and transformation. We are using technology to be more efficient and to enhance existing processes, but I believe there is still enormous scope to use it in a transformational way. I would like to ensure that IEEE Education Society is at the forefront of embedding technology in a transformational way.



ROSA MARIA VASCONCELOS (M'12) is an Associate Professor at the Department of Textile Engineering since 2005. Degree in Textile Engineering by the University of Minho. Professor at the University of Minho since 1984. Ph.D. in Engineering-Technology and Textile Chemistry by the University of Minho in 1993. Rieter Award, 1993.

Responsible for several curricular units in the integrated study cycles in Textile Engineering and Engineering and Industrial Management, in the 1st cycle course of Design and Fashion Marketing, and also in the 2nd cycle courses of Fashion Design and Communication, Textile Chemistry, Advanced Textiles and Design and

Marketing.

Head researcher and research member of several R&D projects, has presented as main author or co-author many dozens of scientific journal papers and communications in international conferences.

President of the Engineering Council Courses (1996-2011)

President of the Pedagogical Council of the School of Engineering since 2011 and Vice-Dean of the School of Engineering

IEEE Activities:

CONFERENCES: Prof. Rosa Vasconcelos organized as Local Committee and Technical Program Committee several Conferences related to Education Engineering, New technologies, Design and Materials.

PUBLICATIONS: She is author or co-author of more than 180 papers in peer reviewed international journals, national journals and conferences proceedings.

STANDARDS: Member and Vice-President (2012-2014) of SPEE (Portuguese Society of Engineering Education).

COMMITTEES or BOARDS: Member of the IEEE- Education Society's Board of Governors from January 2014 ending 31 December 2016.

Qualifications: Prof. Rosa M. Vasconcelos has dedicated her career to the pedagogical subjects in University of Minho. She has been enrolled with several commissions related to engineering education, namely studies on academic success in early academic years, career office, among others.

Major Accomplishments:

Vice Dean of the School of Engineering at University of Minho

Member of the editorial board of books in the area of materials

Member of the editorial board of proceedings in the area of education

Member of Scientific Program in several international and national conferences in the Engineering Education field

Chair member in several international conference in the Engineering Education field

Member of the International Advisory Committee in international conference in the Engineering Education field

Referee in *International Journals in Engineering*

Textile Institute Liaison Officer

Board member at Large: I have served at the BoG of IEEE EdSoc being present in every meeting and along the Board taking decisions

Statement: Prof Rosa Maria Vasconcelos is since 1996 President of the Pedagogical Council of School of Engineering at University of Minho. In this process she has developed skills required to be a Board of Governors member at large, namely leadership and effective organization. The training in solving students and teaching problems provides her with many skills necessary to this position.

With all the practice of 21 years, as President of Pedagogical Council, she is able to be a Board of Governors member, especially in Engineer Educator and first Working Practices

For the Portuguese and the European engineering education, this could be a new opportunity for research and student learning. We will collaborate with companies, develop and implement new ideas at final project, with IEEE projects and programs.

We think it is also very important to introduce IEEE to our students starting from the first years of courses.



MARK ALLEN WEISS (AM'11-M'13-SM'13) is an Eminent Scholar Chaired Professor and Associate Director in the School of Computing and Information Sciences at Florida International University in Miami Florida and also serves as the Undergraduate Program Director. He has been the lead in securing over ten million dollars of state funding for FIU's Information Technology related programs. Professor Weiss is the recipient of the University's Excellence in Research Award in 1994, Excellence in Teaching Award in 1999, and the FIU Top Scholar Award in 2012 and 2016.

He received his Bachelor's Degree in Electrical Engineering from The Cooper Union in 1983, and his Ph.D. in Computer Science from Princeton University in 1987. His interests include data structures, algorithms, and education, and he is most well-known for his highly-acclaimed Data Structures textbooks, which have been used at hundreds of universities worldwide by both Computer Science and Computer Engineering majors. From 1997-2004 he served as a member of the Advanced Placement Computer Science Development Committee, chairing the committee from 2000-2004. Dr. Weiss is an IEEE Senior Member, ACM Distinguished Educator, AAAS Fellow, and the recipient of the 2015 SIGCSE Award for Outstanding Contribution to Computer Science Education.

IEEE Activities:

CONFERENCES: Registration Chair, IEEE PARBASE '90, Miami Beach FL, Mar 7-9, 1990; obtained funding and provided support for several IEEE conferences in Miami, including most recently the IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCBMS), October 2015 IEEE International Symposium on Multimedia (ISM 2015), December 2015.

COMMITTEES or BOARDS: Member of the IEEE Computer Society Technical Committee on Learning Technology, Technical Committee on Mathematical Foundations of Computing, Technical Committee on Data Engineering.

Qualifications: I am an administrator at a large research R1 university that is also a majority hispanic institution and am very familiar with many of the challenges in computer science and engineering education. I have also led the ABET Accreditation for our computer science program. In addition to being the author of market leading data structures textbooks, I am currently a member of the ACM SIGCSE (Special Interest Group for Computer Science Education) Board, and have ten years experience working with the College Board on designing the Advanced Placement Exam. I have been recognized by both AAAS and ACM as a leader in computer science education and have won many teaching awards at my institution.

Major Accomplishments:

1. IEEE Education Society Florida Chapter: part of group working to form this chapter; if successful I will serve as Interim Education Activities Chair.
2. ACM SIGACT (1992-1997): Created the "Technical Report Column" which is still active.
3. College Board (1995-2004): Served as committee member and chair in redesigning the AP Exam to use an object-oriented approach, first in C++ and then in Java.
4. Florida Department of Education (2010-): Serving a discipline coordinator for Computer Science for universities (both public and private) and state colleges.
5. ACM SIGCSE (2016-): Working to raising visibility of CS Education Research to be commensurate with the high importance everybody seems to attach to Computer Science education.

Statement: Although I have limited past service to IEEE, over thirty years I have provided significant service to the CS community and I am honored to be considered for the position of IEEE Education Society Board of Governors Member at Large. I note that Computer Science is a large constituent of IEEE. Since I am already on the SIGCSE Board, one of my goals would be to increase the interaction between the IEEE Education Society and SIGCSE, and my high-level goal is to see Computer Science/Engineering and Electrical Engineering Education Research be considered to be on a more equal footing with traditional research areas.