

## Junior Past President's Report

Jim Sluss

IEEE Education Society Board of Governors' Meeting  
20 October 2017, Indianapolis, Indiana, USA

### Update on Activities of the Nominating Committee and 2017 Elections

#### Nominating Committee

Jim Sluss, Chair

Manuel Castro

Rosanna Chan

Rob Reilly

Rosa Vasconcelos

#### Members-At-Large of the Board of Governors (BoG)

The Nominating Committee received 12 nominations for the four open positions. The three-year term of service is 1 January 2018 to 31 December 2020. Four of the nominees are currently serving as Members-At-Large of the BoG and are eligible for reelection: **Alan Cheville, Lisa Huettel, Lance Perez and Hamadou Saliah-Hassane**. After reviewing the information provided by each nominee, the Committee decided on a slate of eight candidates to stand for election:

<b>Name</b>	<b>IEEE Region</b>
Victor Freitas De Azeredo Barros (GSM'14-M'17)	8
R. Alan Cheville* (S'88-M'98-SM'15)	2
Lisa G. Huettel* (M'99-SM'08)	3
Arnold Neville Pears (AF'94-AM'08-M'09-SM'14)	8
Lance C. Pérez* (S'88-M'95-SM'01)	4
Mahadevan Ramachandran (M'11-SM'12)	10
Elio San Cristóbal Ruiz (S'04-GSM'09-M'10)	8
Hamadou Saliah-Hassane* (M'98-SM'02)	7

\* Current Member-At-Large

The election biographies are attached. The online voting opened on 19 September 2017 and closed on 17 October 2017.

### Vice President for Conferences and Workshops

The Nominating Committee received two nominations. The two-year term of service is 1 January 2018 to 31 December 2019. The Committee approved both nominees to stand for election:

<b>Name</b>	<b>IEEE Region</b>
S. Hossein Mousavinezhad	6
Henrique M. D. Santos*	8

\* Current VP for Conferences and Workshops – eligible for reelection

The election biographies are attached. The election will be held at the BoG meeting on 20 October 2017.

### Vice President for Publications and Media

The Nominating Committee received two nominations. The two-year term of service is 1 January 2018 to 31 December 2019. The Committee approved both nominees to stand for election:

<b>Name</b>	<b>IEEE Region</b>
Martin Llamas-Nistal*	8
Arnold Neville Pears	8

\* Current VP for Publications and Media – eligible for reelection

The election biographies are attached. The election will be held at the BoG meeting on 20 October 2017.

### Secretary

The Nominating Committee received one nomination. The two-year term of service is 1 January 2018 to 31 December 2019. The single nomination is for **Melany M. Ciampi**, the current serving Secretary who is eligible for reelection. The Committee approved going forward with a single candidate to stand for election.

The election biography is attached. The election will be held at the BoG meeting on 20 October 2017.

**Candidates for Member-At-Large of  
the Board of Governors  
Biographies**

**IEEE EDUCATION SOCIETY ELECTION**  
**For Election of Members-at-Large to the Board of Governors**  
**For a Three-Year Term 1 January 2018 – 31 December 2020**



**VICTOR FREITAS DE AZEREDO BARROS** (GSM'14-M'17) Ing.-Paed IGIP is Researcher Fellow at Algoritmi Centre/University of Minho, Portugal. He is Executive Director at International Institute of the Engineering Education (IIE) and Executive Secretary of the Science and Education Research Council (COPEC). He is Professor of the IGIP Engineering Educator Certificate Program. He is Researcher at University of São Paulo (USP); São Paulo State University (UNESP); Mackenzie University; Pontifical Catholic University of Goiás (PUC-GO); Goiás Federal Institute (IFG); Amapá Federal Institute (IFAP) and Researcher of Catarinense Federal Institute (IFCatarinense). He is Editor-in-Chief of *Brazilian Journal of Education, Technology (BRAJETS)* and Society and Board Editorial of *Journal of Information Systems and Technology Management (JISTEM)*. He is Associate Editor of *Directory of Open Access Journals (DOAJ)*. He is member of Intersociety Cooperation Committee, Standing Committee of the IEEE Education Society. He is Publication Chair of the IEEE World Engineering Education Conference (EDUNINE); Safety, Health and Environment World Congress (SHEWC); International Conference on Engineering and Computer Education (ICECE); World Congress on Communication and Arts (WCCA); World Congress on Systems Engineering and Information Technology (WCSEIT); World Congress on Computer Science, Engineering and Technology Education (WCCSETE and Publication Chair of the International Conference on Engineering and Technology Education (INTERTECH). He also organization member of the other scientific conferences and workshops around the world: European Conference on Information Systems (ECIS); International Conference on Information Systems and Technology Management (CONTECSI); Conference of the Portuguese Chapter of the Association of Information Systems (CAPSI); and the International Workshop of Information and Communication Technology in Tourism & Hospitality (TICT&H). Victor Barros is also Member of the several research teams: 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 as visiting research at University of São Paulo; IDD Institute, Federal University of Espirito Santo (UFES); and University Mackenzie. He has more than 110 papers published in several congresses and he has organized more than 30 congresses around the world.

**IEEE Education Society/IEEE Activities:**

**CONFERENCES:** Victor Barros was Publication Chair of all International Conferences of COPEC with agreements with IEEE and the IEEE EDUNINE, since 2017. 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.

**COMMITTEES or BOARDS:** He has member of Intersociety Cooperation Committee, Standing Committee of the IEEE Education Society.

**CHAPTERS, SECTION or REGIONS:** Portuguese Chapter of IEEE Computational Intelligence Society; IEEE Portugal Education Society Chapter; IEEE Women in Engineering

**Qualifications:** Along his accomplished career as computer engineer professor he was Publication Chair of several Conferences and Editor/Associate Editor of some Journals around the World. He has a large national and international experience as well as serving COPEC and others Scientific Societies and Researcher Centre 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 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](http://www.linkedin.com/in/vfbarros) for your reference.



**R. ALAN CHEVILLE** (S'88-M'98-SM'15) received degrees in electrical engineering at Rice University, receiving his doctorate in 1994. His dissertation work looked at the anomalous ultrafast relaxation of carbon-60 films using optical techniques. Following graduation he took a postdoctoral position working on ultrafast optoelectronic research. He became a tenure-track faculty member in 1998 at Oklahoma State University and continued his work on high speed THz optoelectronics in areas such as THz time domain spectroscopy of molecular vapors and flames, pulsed ranging, and optical tunneling. During his time at Oklahoma State University he slowly transitioned his research interests from optoelectronics to engineering education, with a focus on effectively integrating research-based pedagogies into engineering curricula in the areas of photonics and

electromagnetics. He led a five year NSF-sponsored department-level reform project at OSU that sought to integrate relevant design experiences and mathematical competencies across the curriculum. Following the conclusion of this project, he served for two and a half years as the program director for engineering education in the National Science Foundation's Engineering Directorate. He currently serves as chair of the Electrical & Computer Engineering at Bucknell University, associate editor of the *Journal of Engineering Education*, and on several other advisory boards.

**IEEE Education Society/IEEE Activities:**

Reviewer for American Society of Engineering Education Annual Conference and Frontiers in Education conference.  
IEEE Education Society Board of Governors, Member-at-Large and Finance Committee (2015-2017)

**Qualifications:** I am well qualified for this position having published engineering education articles from both the research and practice perspectives, managed a major educational reform project, and served in a policy position related to engineering education in the US Government. I have experience in academic publishing as an associate editor of the *Journal of Engineering Education*, and currently serve on numerous engineering education related advisory boards.

**Major Accomplishments:** While my previous service does not extend to the IEEE Education Society, I have served as a program offer at the National Science Foundation managing \$10M in awards annually and currently serve as associate editor for the *Journal of Engineering Education*. I have published twice in *IEEE Transactions on Education*, published an invited paper on engineering education in the centennial edition of the *Proceeding of the IEEE*, and regularly present papers at both the Frontiers in Education Conference and the American Society for Engineering Education annual meeting. I am currently secretary/treasurer of ASEE's Technological Literacy Division.

**Statement:** I believe that higher education generally, and engineering education specifically is in a time of major change. Electrical engineering has seen a significant decline in student enrollment without an obvious recovery at a time when demand for electrical engineers is high. The gender balance of electrical engineering programs has similarly worsened. At the same time we have seen rapid expansion in the scope of electrical engineering to a point that our profession has become an enabling technology for nearly all other technologies and services. A critical challenge is to develop new ways to educate students in a field changing at the pace of Moore's Law with increasingly limited resources while maintaining the status of a profession that is becoming increasingly invisible and irrelevant to non-engineers. As a member of the Board of Governors I will seek to stimulate dialog around ways to reconceptualize electrical engineering education to meet these challenges that engage all members of the community as well as national policy makers.



**LISA G. HUETTEL** (M'99-SM'08) holds Ph.D. and MS degrees in Electrical Engineering from Duke University, and a BS degree in Engineering Science from Harvard University. She joined the faculty of Electrical and Computer Engineering at Duke University in 2001, where she is currently a Professor of the Practice. She also serves as the Associate Chair and the Director of Undergraduate Studies for the ECE department. She is actively engaged in engineering education research and has received funding from the National Science Foundation, as well as multiple industry partners, to pursue research and curriculum development in the areas of signal processing, ECE curriculum redesign, interactive learning, contextual learning and student motivation. She has been actively involved in the American Society of Engineering Education, serving on the executive committee of the Division of Experimentation and Laboratory Oriented Studies (2006-2012), including a term as Program chair (2010) and Division chair (2011). She was appointed to the National Academy of Engineering Frontiers of Engineering Education Symposium Advisory Committee and served a three-year term (2014-2017). She is the recipient of the 2006 IEEE Mac Van Valkenburg Early Career Teaching Award, awarded by the IEEE Education Society, as well as several school-wide teaching awards.

**IEEE Education Society/IEEE Activities:**

- Frontiers in Education Conference (reviewer, 2004-2017; session chair 2004, 2007)
- IEEE Digital Signal Processing/Signal Processing Education Workshop (reviewer, 2009, 2011)
- IEEE International Conference on Acoustics, Speech, and Signal Processing (reviewer, 2008-2017)
- IEEE Education Society Board of Governors, Member-at-Large and Finance Committee (2015-2017)
- IEEE Technical Committee on Signal Processing Education, member (2007-2011).

**Qualifications:** My scholarly and professional interests have provided a broad perspective on engineering education, through my activities in professional societies, my contributions to pedagogical practice, and my experience developing new curricula and courses. My research has focused on student motivation and engagement, the use of technology for active learning, and incorporating societal problems into engineering curricula (e.g., the NAE Grand Challenges). Much of this work is collaborative, including with engineers from multiple disciplines at my own and other institutions and with colleagues in other fields. Through my activities in the larger educational community – including as a current member of the Board of Governors of the IEEE Education Society and my service within ASEE (e.g., various leadership roles in DELOS) – I have observed (and appreciate) the diverse challenges faced by engineering educators at different institutions. At my own institution, I currently serve in several departmental and university leadership roles, served as a mentor for the Society of Women Engineers, and have been recognized for my teaching with two school-wide awards. In summary, I am committed to engineering education both through my scholarship and through my efforts on behalf of my students and colleagues.

**Major Accomplishments:**

- IEEE Education Society Board of Governors, Member-at-Large and Finance Committee member (2015-2017)
- National Academy of Engineering Frontiers of Engineering Education Symposium Advisory Committee, member (2014-2017)

- American Society of Engineering Education, Division of Experimentation and Laboratory-Oriented Studies, Division Chair (2010-2011); Program Chair (2009-2010); Secretary/Treasurer (2008-2009); Secretary (2007-2008); Treasurer (2006-2007); and Executive Committee member (2006-2012).
- American Society of Engineering Education, Robert G. Quinn Award Committee, Chair (2011-2012); member (2010-2013)

**Statement:** The engineering education community applies diverse approaches toward a common aim: Training and mentoring the next generation of engineers. I would work with my colleagues on the Board of Governors to grow the IEEE Education Society, to help the society respond to the changing nature of engineering education, and to identify avenues for merging scholarship and practice. In such a large and vibrant society, meaningful advances cannot come solely from the Board of Governors – they must arise from the ideas and energy of the society membership. This means that members of the Board of Governors must listen to the society membership, must be attentive for exciting ideas that arise in the conference program (or in hallway conversations!), and must develop the society in a way that makes people want to affiliate. For society policy, I will provide leadership in areas where I have experience – from curriculum development within an institution to building virtual communities that span institutions – and will serve as a sounding-board and constructive partner in other areas. My overall goal is to serve the IEEE community as a representative and colleague, and as someone who helps build a stronger and more integrative community.



**ARNOLD NEVILLE PEARS** (AF'94-AM'08-M'09-SM'14) is Professor, Deputy Head of Department and Division Head of the Computer Systems Division, Department of Information Technology, Uppsala University, SWEDEN. He directs the UpCERG group and the CeTUSS Swedish National Center for Student and Societally Relevant Engineering Education. He is Chair of the Strategic Advisory Board of the Uppsala University Center for STEM Higher Education Research, and member of the Uppsala University Academic Senate and pedagogical advisory board to the Faculty of Science and Technology.

Arnold received his BSc(Hons) and Ph.D. from La Trobe University, AUSTRALIA. Arnold is an IEEE Senior Member, Computer Society Golden Core Member(2012), receiving the Schmitz Award (2012) for services to the FIE conference. He has published more than 100 articles in major conferences and journals and has served as conference and program committee chair for many major conferences under the auspices of the IEEE and ACM. For more information [www.it.uu.se/katalog/arnoldp](http://www.it.uu.se/katalog/arnoldp)

#### **IEEE Education Society/IEEE Activities:**

##### **CONFERENCES:**

IEEE Frontiers in Education, Steering Committee 2009-2016

- Chair 2011-2012

- Programme co-chair 2011, 2014

- Dasher “Best Paper” Awards Committee member 2009-present

- Founder, Sponsor and Publications Chair, IEEE International Conference on Learning and Teaching in Computing and Engineering (LaTiCE) 2012-present

**PUBLICATIONS:** Assistant Editor in Chief of *Transactions on Emerging Topics in Computing*

##### **COMMITTEES or BOARDS:**

- Computer Society Board of Governors 2012-2014

- IEEE Internet of Things Education Track Chair New Initiatives Committee.

- IEEE Computer Society Education and Professional Activities Board 2009-present

- Chair of IEEE Computer Society STC Education 2012-present

- IEEE/ACM Computing Curriculum 2020 task force member

**PUBLICATIONS:** Associate Editor in Chief of *Transactions on Emerging Topics in Computing*

**CHAPTERS, SECTION or REGIONS:** Chair of IEEE Computer Society STC Education 2012-present

##### **Other IEEE Units:**

- Chair: IEEE Education Society, Nordic Chapter 2010-2014

- Member: Sweden Section 2000-present

**Qualifications:** Combing over twenty years of leadership and academic research and development experience with insights into the organisational and operational challenges I have assembled direct experience and insight into a range of operational aspects that are central to the Education Society mission.

My contributions include recruitment of new IEEE members, and the establishment of successful activities, particularly work in the Nordic Chapter, and Conferences. I have developed management and interpersonal skills directing a department that currently has over 280 employees. I have considerable experience with budget oversight and financial management, managing a budget of over a million US dollars annually.

I am committed to helping the Education Society to increase its relevance to members, and re-imagine its global role as the leading professional association for engineering education. I am ideally positioned to contribute to re-engineering key core elements of our activities, focussing on enhancing the relevance of engineering education and careers in engineering.

### **Major Accomplishments:**

1. Established the IEEE Computer Society STC for Education and through that STC established the LaTiCE conference series in Asia in 2013.
2. Lead the education track of the IEEE Initiative in Internet of Things.
3. Contributed to the growth and success of the IEEE Frontiers in Education conference series increasing reporting transparency and through implementing new financial initiatives re-establishing the profitability of the conference series.
4. Spearheaded the development of the UpCERG research group in Uppsala over the past decade to establish it as an internationally leading research group in Engineering and Computing Education research.
5. IEEE representative on the Computing Curriculum 2020 task force, a joint enterprise to establish internationally relevant curriculum standards for computing and related disciplines.

**Statement** The IEEE collectively faces organisational and structural challenges adapting its core activities of standards and publications to a decentralised information society in which traditional standards and publication models no longer serve many of our members as they did in the past.

IEEE Education Society is dedicated to enhancing education in all areas of engineering and increasing the relevance of engineering to future generations of young people. Ours is a society of volunteers, with volunteers, for volunteers. Understanding how to increase the relevance of membership is a key current challenge. We need to innovate and understand better the types of support our community desires in their education or profession. Supporting our members in their professional lives is vital to our continued success. I will work to gain a better understanding of how the Education Society can increase their relevance and appeal across the globe.

My extensive decades of experience as STEM researcher and departmental leader equip me to make significant contributions to policies, initiatives and curricula and pedagogical standards. Thought leadership is central to our goal to improve our professional support for students and professionals both through education and after graduation. I offer my services to the community in the pursuit of these goals.



**LANCE C. PÉREZ** (S'88-M'95-SM'01) has been a faculty member in the Department of Electrical Engineering at the University of Nebraska-Lincoln (UNL) since August 1996 where he holds the rank of Professor and the Omar H. Heins Professor of Electrical and Computer Engineering. He received his BS degree in electrical engineering from the University of Virginia and his MS and Ph.D. degrees in electrical engineering from the University of Notre Dame. His research interests are wireless communications and engineering education and he has been the PI or co-PI on over thirteen million dollars of federally funded grants. While at UNL he has received many teaching awards including the university's College Outstanding Teaching Award. From August 2008 to August 2010 he was a Program Director in the Division of Undergraduate Education at the National Science

Foundation where he worked on the Federal Cyber Service: Scholarship for Service (SFS) program, the Course, Curriculum and Laboratory Improvement (CCLI) program, the Advanced Technology Education (ATE) program and the Math and Science Partnership (MSP) program and managed a portfolio totaling more than \$30M. He was the Associate Vice Chancellor for Academic Affairs from August 2010 to June 2016 where he was responsible for promotion and tenure, faculty leadership development, academic facilities and STEM education initiatives. He was Dean of Graduate Studies from August 2012 to May 2017 where he was responsible for all non-professional graduate degree programs at the University of Nebraska-Lincoln. He became interim dean of the College of Engineering on July 1, 2016.

### **IEEE Education Society/IEEE Activities:**

Treasurer, IEEE Education Society, January 2011 – December 2014

Chair, Finance Committee, IEEE Education Society, June 2009 – December 2010

Member, Finance Committee, IEEE Education Society, March 2003 – present

Newsletter Editor, IEEE Information Theory Society, June 2000 – December 2005

Publications Officer, IEEE Information Theory Society, October 2003 – December 2005

Member at Large, Board of Governors, IEEE Education Society, January 2015 – December 2017

Member at Large, IEEE Committee on Engineering Accreditation Activities (CEAA), January 2015 – present

**Qualifications:** I have been an IEEE member for over 25 years and held positions in two different societies. I am familiar with the financial, technical and strategic operations of the IEEE and its societies. I have a wide range of experiences in my scholarly work, and in my professional and administrative work, that would serve the IEEE Education Society well as it continues to evolve its mission in the changing educational, financial and international environment. I have been substantially involved with IEEE Education Society in various roles for nearly a decade and am very familiar with its mission and operations. I believe the sum of my experiences puts me in a position to serve the society and its membership well for the next several years.

### **Major Accomplishments:**

1. As the Newsletter Editor and Publications Chair of the IEEE Information Theory Society, I eliminated a publication backlog of almost two years and thus resolved a major issue that the IEEE was scrutinizing during the all society review.
2. As Treasurer of the IEEE Education Society, I created the first set of operating procedures for the Finance Committee and the budgeting process of the society.
3. As Treasurer of the IEEE Education Society, I oversaw the Society's financial operations during a period of significant operational and organizational changes that significantly impacted the Society's budgeting processes and income and expense flows. I did this while working with the Society's leadership to preserve the overall financial health of the Society.

**Statement:** As a member of the IEEE Education Society's Board of Governors I will work to ensure that the Society continues to be the world leader in electrical engineering education. This includes expanding the Society's geographical footprint and working to ensure that the Society is a leader in all aspects of electrical engineering education. I am particularly interested in helping the Society increase its value to all of its members. This includes continuing ongoing efforts to enhance the quality and scope of the Society's publications and conferences. In addition, I will work to create mechanisms that allow a larger percentage of the Society's members to utilize the Society's resources in a more local context through more local and regional activities.



**MAHADEVAN RAMACHANDRAN** (M'11-SM'12) Principal Advisor, Aasaan eduCare Foundation, Chennai, India extends advisory services to engineering colleges towards Quality Engineering Education, Accreditations, TQM, implementation and certification of quality system, e-content development etc., since 2004. He has a large clientele base of 200+ professional institutions in India. More than 20000+ faculty members in India have received his inputs on quality engineering education, accreditation, OBE etc., since 2004.

More than 800 Programs have been successfully NBA Accredited under his guidance and more than 50+ Institutions have been NAAC Accredited. Also, some institutions emerged as TEQIP funded, autonomous and deemed status under his advisory services.

He did his graduation in Electronics and Communication Engineering(BE) at Thiagarajar College of Engineering, Madurai, India (1983) and post-graduation in Computer Science Engineering(ME) at College of Engineering, Guindy, Anna University, Chennai, India(1984). He had registered for Ph.D. at BITS, Ranchi. In 1985, he started his career as a R&D Engineer at Government of India's CMC Limited, Secunderabad. As techno-entrepreneur, he catalyzed the development of innovative software and hardware products in Indian IT Industry (like Airport Multilingual Display Systems, University Degrees' Printing Software, Educational Software etc.) since 1986. He was Adjunct Professor in Computer Science Engineering during 1999-2003. Since 2014, he specializes on Quality, Growth and Accreditation in Engineering and Professional Institutions in India. In 2015, he has promoted 'Kredo Systems', towards innovative software and hardware products development. He has more than 32 years of professional experience in software industry and in academics.

Prof Mahadevan presented his papers on Accreditation & Total Quality Management at IEEE EDUCON 2013 International Conference at Berlin, at IEEE TALE 2013 International Conference at Bali and at 2014, 2015 & 2016 ABET Symposiums, at Pittsburgh, Atlanta & Florida, USA. He is an ABET IDEAL Scholar, IEEE Senior Member and Chair, IEEE Education Society, India Council(2017). He has widely travelled to countries like USA, Germany, UK, Indonesia, Thailand, Taiwan, Hong Kong, Belgium, Malaysia, Switzerland and France.

He has officiated as Vice Chair, IEEE Education Society, India Council in 2016 and currently officiates as Chair, IEEE Education Society, India Council. During his tenure, he has been organizing IEEE Education Society Sponsored, International Conference on 'MOOCs, Innovation and Technology in Education (MITE) along with Dr Deepak and the 5th MITE is scheduled at Bangalore in 2017. He has also organized ABET Awareness Programs in India along with ABET, USA and IEEE Education Society, India Council. To enable his further contribution to IEEE Education Society, he is planning to take challenging assignments at the global level.



**ELIO SAN CRISTÓBAL RUIZ** (S'04-GSM'09-M'10) STUDENT LEADERSHIP AWARD 2012, Member of IEEE and webmaster IEEE Education Society. He is an assistant professor in the electronic and computer department of the Spanish University for Distance Education (UNED). He has a doctoral engineering degree from the ETSII (Industrial Engineering School) of the Spanish University for Distance Education (UNED), 2010. He also has a Computer Science Engineering degree by the Salamanca Pontifical University (UPS), Madrid 2002 and a Technical Engineering degree in computer networks (UPS), Madrid 1998. He has worked for the University Distance Education Institute (IUED) from UNED and in Computer Science Service Centre of the Spanish University for Distance Education (UNED).

#### **IEEE Education Society/IEEE Activities:**

Education Society: He was President of IEEE student branch in Spain 09-10, Student Leadership Award 2012, IEEE student member 2007 and Member of IEEE 2011.

Education Society Board of Governors (BoG):

- Member of the Standards Committee of IEEE Education society
- Webmaster of IEEE education society since 2016

#### **CONFERENCES:**

- GOLC (2009-): Founding Member of Global Online Laboratory Consortium;
- EDUCON (2010-): IEEE EDUCON 2010 Local Committee

#### **PUBLICATIONS Selected (2014-2017):**

-Martin, S., Diaz, G., Sancristobal, E., Gil, R., Castro, M. y Peire, J. New Technology Trends in Education: Seven Years of Forecasts and Convergence. Computers & Education. Vol. 57, núm. 4, Diciembre de 2011, (8 números al año), págs. 1893-1906 (14). Elsevier (Pergamon Press), ISSN: 0360-1315. New York (Estados Unidos de América).

-Tawfik, M., Sancristobal, E., Martín, S., Gil, R., Díaz, G., Colmenar, A., Peire, J., Castro, M., Nilsson, K., Zackrisson, J., Hakansson, L. y Gustavsson, I. Virtual Instrument Systems in Reality (VISIR) for Remote Wiring and Measurement of Electronic Circuits on Breadboard. IEEE Transactions on Learning Technologies. Vol. 6, núm. 1, Enero-Marzo de 2013, (Trimestral), págs. 60-72 (13).

-Carro Fernández, G., Martín Gutiérrez, S., Sancristobal Ruiz, E., Mur Pérez, F., y Castro Gil, M. Robotics, the New Industrial Revolution. IEEE Technology and Society Magazine. Vol. 31, núm. 2, Junio de 2012, (Trimestral), págs. 51-58 (8). IEEE (Institute of Electrical and Electronic Engineers) Society on Social Implications of Technology (IEEE SIT), ISSN: 0278-0097, New York (Estados Unidos de América).

-Ros, S.; Hernandez, R.; Robles-Gomez, A.; Caminero, A.C.; Tobarra, L.; Ruiz San Cristóbal, E. Open Service-Oriented Platforms for Personal Learning Environments. Internet Computing, IEEE (Volume:17, Issue: 4), 2013 EEUU.

-Tawfik, M., Sancristobal, E., Martín, S., Díaz, G., Peire, J. y Castro, M. Expanding the Boundaries of the Classroom. Implementation of Remote Laboratories for Industrial Electronics Disciplines. IEEE Industrial Electronics Magazine. Vol. 7, núm. 1, Marzo de 2013, (Trimestral), págs. 41-49 (9). IEEE (Institute of Electrical and Electronic Engineers) Industrial Electronics Society (IEEE IES), ISSN: 1962-4529, New York.

-Sancristobal, E., Pesquera, A., Orduña, P., Ruiz Larrocha, E., Gil, R., Martín, S., Díaz, G., Albert, M.J., Colmenar, A., Meier, R. y Castro, M. Virtual and Remote Industrial Lab Integration in Learning Management Systems. IEEE Industrial Electronics Magazine. Vol.8, núm. 4, Diciembre de 2014, (Trimestral), págs. 45-58 (12). 2014. IEEE (Institute of Electrical and Electronic Engineers) Industrial Electronics Society (IEEE IES), ISSN: 1962-4529, New York

-Tawfik, M., Monteso, S., Garcia-Loro, F., Sancristobal, E., Ruiz, E., Diaz, G., Colmenar, A., Peire, J. y Castro, M. Novel Design and Development of Advanced Remote Electronics Experiments. Computer Applications in Engineering Education. 2015. John Wiley and Sons, Ltd., ISSN: 1099-0542, Sussex (Inglaterra). Institute of Electrical and Electronic Engineers (IEEE). <https://doi.org/10.1109/FIE.2014.7044172>

### **STANDARDS:**

IEEE LOM (Spanish): Technical member for translating to Spanish;  
 IEEE Education Society Standards Committee: Technical (2010-);  
 IEEE-SA P1876™ Working Group (Technical) (2011-)

**Qualifications:** My background is in Educational field such as remote labs, E-learning, and Blended learning. He has been involved in a great number of learning project such as Go-Lab – Global Online Science Labs for Inquiry Learning at School - FP7-ICT-2011-8 - Project number 317601, Building an Ecology of Online Laboratories – 517836-LLP-1-2011-1-ES-ERASMUSESMO. NSF Catalyzing New International Collaborations (National Science Foundation) ( USA)

### **Major Accomplishments:**

Web master of IEEE Education Society  
 Recognition and Awards: Student Leadership Award 2012

**Statement:** In the next few years to come, my goal is to seek for technical and financial collaborators to help us to:

1. Promote Learning through standardization processes.
2. Promote the use of new software and hardware such IoT to create new learning scenarios that can be applied to school, Institutes and universities
3. Involve electronic and computer Institutions in working closely with IEEE Education society
4. Promote the importance of educational congress and journals.



**HAMADOU SALIAH-HASSANE** (M'98-SM'02) is currently teaching Informatics and Computer Networks at TELUQ University of Quebec in Montreal. He is a senior researcher at TELUQ where he is carrying research on Distributed Systems including Smart Networked Educational Devices for Online laboratories. He teaches informatics and computer networks.

He is member of Professional Engineers of Québec (OIQ); of IEEE (Member of Board of Governors of IEEE Education Society (2009-2013) and Chair of its Standards Committee) and Chair of the P1876™ IEEE Standards Association's Working Group on "Standard on Networked Smart Learning Objects for Online Laboratories".

In 2005 Professor Saliah-Hassane received the "2005 Achievement Award" from the International Network for Engineering Education (iNEER) for "Research and Innovation on Online laboratories and for the Advancement of International Collaboration". Hamadou Saliah-Hassane is one of the founding members of the Global Online Laboratory Consortium called GOLC (2009). In 2012, Professor Saliah-Hassane was recognised with highest academic distinction of "Commander of the Order of Academic Palm" by Republic of Niger, his native country.

### **IEEE Education Society/IEEE Activities:**

Education Society: Member of IEEE Education Society (1991-); Member of the Strategic Committee (2017-); Elected Member of the Board of Governors (2009-2013 and (2015-2017); Chair of Standards Committee (2010-); Representative to IFEEES (International Federation for Engineering Education Societies) (2009-) & African Association for Engineering Education (AAEE) (2009-); Edsoc iLab Africa-Europe- Canada initiative (2012); Montreal IEEE Education Society Chapter Chair (2005-); EDUCON (2010-); Member of the International Advisory Board; Keynote Speaker EDUCON 2012; Chair of annual Workshops on Smart educational learning devices for Online Laboratories (IEEE-SA P1876™) (2011-); Member of the Steering Committee of IEEE Transactions on Learning Technologies (TLT) on behalf of the Education Society.

Educational Activity Board (EAB):

Member the Educational Activities Board (EAB) Committee on Global Accreditation Activities (CGAA) (2017-); Member of the Canadian Teacher in Service Program (TISP) (2009-); Montreal Teachers in Service “TISP Champion” (2009-2012) & (2014-)

### **CONFERENCES:**

- UNESCO Scientific Expert Committee for East Africa Science and Climate Change ((2017)
- Organizer of Workshops on Smart educational learning devices for Online Laboratories (IEEE-SA P1876) in the framework of (REV & EDUCON Conferences);
- Member of the organizing committee of the 25TH INTERNATIONAL WORLD WIDE WEB CONFERENCE, Montreal (2016)
- ITHC (2014): Member of the organizing Committee of the 2014 International Conference on Humanitarian Technology; Member of Award Committee & Member of the Community Engagement Workshop organizers;
- IEEE SIGHT (2014): Founding member of Montreal Special Interest Group on Humanitarian Technology (SIGHT);
- ICELIE (2013): General Chair of the 6th International Conference on E-Learning in Industrial Electronics (IEEE Industrial Electronics Society);
- GOLC (2009-): Founding Member of Global Online Laboratory Consortium;
- EDUCON (2010-): Member of the International Advisory Board; Keynote Speaker EDUCON 2012; Chair of the Workshop on Smart educational learning devices for Online Laboratories (IEEE-SA P1876);;
- NGNS (2010-): Next Generation Network and Services Annual Conferences (EdSoc Sponsored Conference): Chair of the International Network; Member of the International Steering Committee;
- AFRA (2007): Chair of the scientific committee of “The 1st Afra Conference on Information and Communication Technologies (ICT) in Teaching and Learning in Nuclear Science and Technology, Niamey, Niger, 19-20 November 2007”;
- WoRD (2007 & 2008): Member of the Organizing Committee of IEEE Workshop on Remote control of Devices;
- JFO (2007 & 2008): Member of the scientific committee of Francophone Ontology Days (Journées francophones sur les ontologies JFO2007 & JFO 2008);
- RESATICE (2005): Founding member of RESATICE, A francophone research network on information technology for education created in Tunisia, November 2005;
- SASNET (2005): Founding member of SASNET (African Society for Science & Technology; Société africaine des sciences et technologies (SASNET), Brazzaville, Congo Brazzaville, October 2005;
- iNEER (2001-): Member of the Steering Committee of International Network on Engineering Education and Research (iNEER); Program committee of iCEER/ICEE Conference series;
- ITHET (2000-): "Information Technology Based Higher Education and Training Reviewer & Member of the International Steering Committee (2001, 2003 & 2004);
- Reviewer of papers published in: *IEEE Transactions on Learning Technologies*; *IEEE Transactions on Education*; *Frontiers in Engineering Education Conferences*; *IEEE EDUCON Conferences*; *ICELIE*, *ASEE Conferences*; *IEEE Transactions on Industrial Electronics*; *Elsevier -Science Direct*; *IGT Global*; *European Journal on Engineering Education*; *Journal of Supercomputer*; and many other Computer engineering, power systems and knowledge based systems Journals and Conferences.

### **PUBLICATIONS: Selected (2014-2017):**

- Tawfik, Mohamed; Salzmann, Christophe; Gillet, Denis; Lowe, David; Saliyah-Hassane, Hamadou; Sancristobal, Elio et Castro, Manuel (2014). Laboratory as a Service (LaaS): a Model for Developing and Implementing Remote Laboratories as Modular Components. *International Journal of Online Engineering (iJOE)*, 10 (4).
- Mhamdi, Mohamed; Saliyah-Hassane, Hamadou; Braham, Rafik & Bannour, Wahid (2016). Suitability of UML4ODP for an Engineering Specification of a Distributed Environment for Teaching Embedded Systems. Dans *Proceedings of the 14th LACCEI International Multi-Conference for Engineering, Education, and Technology: “Engineering Innovations for Global Sustainability”*. Boca Raton, Florida, US : Latin American and Caribbean Consortium of Engineering Institutions (LACCEI Inc). ISBN 978-0-9822896-9-3
- Saliyah-Hassane, Hamadou; Dodo Amadou, Moustapha; Maarouf, Saad et Ofosu, Willie K. (2016). Using Services Oriented Remote Laboratories in Engineering Courses. Dans *Proceedings of the 2016 American Society for Engineering Education (ASEE) International Forum*. New Orleans, Louisiana, USA : American Society for Engineering Education.
- Idrissa Mato, Saley; Djibo, Karimou; Bisso, Saley et Saliyah-Hassane, Hamadou (2016). A Secured Resource Access Management in Educational Cloud Computing Environment. Dans *Proceedings of the 4th International Symposium on Digital Forensics*. <https://doi.org/10.1109/ISDFS.2016.7473510>
- Saliyah-Hassane, Hamadou et Reuzeau, Adrien (2015). Mobile open online laboratories: A way towards connectionist massive online laboratories with x-API (c-MOOLS). Dans *Proceedings of 2014 IEEE Frontiers in Education Conference (FIE)*. Madrid, Spain : Institute of Electrical and Electronics Engineers (IEEE).<https://doi.org/10.1109/FIE.2014.7044172>

### **STANDARDS:**

- IEEE Learning Technology Standards Committee (LTSC): Member of LTSC (2016 -); ADL Actionable Data Book (ADB) Working Group (2015-);
- IEEE Education Society Standards Committee: Chair (2010-);
- IEEE-SA P1876™ Working Group (Chair) (2011-)

### **COMMITTEES or BOARDS:**

Education Society Member of Board of Governors (2009-2013 and (2015-2017)

IEEE MGA (2010-): A & A Committee Panel to review Senior Member applications; Contribution to the development of IEEE Education Society Student Branch in Africa

**CHAPTERS, SECTION or REGIONS:** Montreal IEEE Education Society Chapter Chair (2005 - present)

**Other IEEE Units:** Member of IEEE Education Society, Power and Energy Society, Industrial Electronics Society, Computer Society, Communication Society, Standards Association

**Qualifications:** My background is in Electrical and Computer Engineering. I am educated in Africa (Niger and Senegal), Canada and France. I would like to share my expertise on the use of computers in networks and information technology and communication systems with my colleagues around the world. As one can see in my biography and information provided in this document, my networks, my education in well known educational institutions and my current position in a distance and information technology based higher education university in Canada are an asset and a logical background for working on challenging research and development projects concerning developing countries including Africa. One can also observe my involvement and my volunteer active role at many of key international organizations where development and sustainability based on science, engineering and information and communication technology are used to solve challenging issues.

**Major Accomplishments:**

- Chairing the Education Society Standards Committee since 2010;
- Chairing the first IEEE Standard Association Working Group on the standardization of Online laboratory components;
- Organizing and co-Chairing: A workshop on iLab Africa – Europe & Canada at EDUCON 2012 in Marrakech and series of workshops on Smart educational learning devices in the framework of EDUCON, REV and Exp.at Conferences;
- Being the General Chair of the IEEE International Conference on E-Learning in Industrial Electronics, (ICELIE 2012), October 25-28, 2012, Montreal, Quebec, Canada;
- Being the General Chair of the iNEER, The 2013 International Conference on Engineering Education and Research (ICEER 2013) 1-5 July 2013, Marrakech, Morocco;
- Conceiving Ministers and High Ranked Public Officers in African Countries and International Organizations;
- Contributing to Learning Technology Standards;
- Co-supervision of three Assistant Professors from Senegal and Tunisia Universities who graduated (PhD degree) respectively in 2015, 2016 and 2017.

**Recognition and Awards:**

Special Award for Organizing the first iNEER – iCEER Conference in Africa: International Network on Engineering Education & Research (iNEER) (USA) – 2013;  
Exceptional contribution (General Chair of ICELIE Conference): IEEE Industrial Electronics Society, Piscataway NJ, (USA) - 2012;  
Chair of EdSoc Recognition / Contribution Board of Governors IEEE Education Society: IEEE Education Society, Piscataway NJ, (USA) – 2012;  
Commander of the Order of Academic Palms of Republic of Niger: President of Niger de la Republic – 2011;  
Chair of EdSoc / Leadership Recognition ( for chairing EdSoc Standards Committee): IEEE Education Society, Piscataway NJ, (USA) – 2011;  
Montreal Section Chair/ Certificate of recognition as Montreal TISP “Champion” - IEEE Education Activity Board: TISP (Teachers in Service Programme), Montreal, Canada – 2009;  
Certificate of Appreciation by VP IEEE Technical Activity Board: IEEE Headquarters, Piscataway NJ, (USA) – 2009;  
“Achievement Award for Research on Online Laboratories & for International Collaboration”: International Network on Engineering Education & Research (iNEER) (USA) – 2005.

**Statement:** in the next few years to come, my goal is to seek for technical and financial collaborators to help us to:

1. Promote, as a member of the Education Society Strategic Committee, cooperation and collaborations favoring the partnership and active work among IEEE societies, education and technical activities, Special Interest Groups and volunteers including Students.
2. Contribute to promote, production and exploitation of products and processes related to technology and knowledge for teaching and learning in the context of participatory action research.
3. Promote the participation of the IEEE Education Society & ASEE diaspora members (not only Africans but all those who are not living in their own countries) to start new initiatives benefiting to each of the poorest countries or region of the world.
4. In the context of globalization , valuing young women and men to bring out innovation and sustainable development while encouraging community groups to develop services , cooperative production of technological devices and processes in compliance each one’s language and culture and the intellectual property rights of all.
5. Contribute to promote the democratizing of access to knowledge through computer networks while protecting the fundamental freedom, people’s rights and their privacy.
6. Promote Learning through standardization processes.

**Candidates for Vice President for  
Conferences and Workshops  
Biographies**



## Nomination for Office - IEEE Education Society - 2017

To assume office on 1 January 2018

**CANDIDATE NAME: S. Hossein Mousavinezhad**

### POSITION NOMINATED FOR:

- 2018-2020 Board of Governors member at large
- 2018-2019 Vice President for Publications
- 2018-2019 Vice President for Conferences and Workshops
- 2018-2019 Secretary

**NOTE:** the Education Society does not reimburse costs of travel/hotel for attending the Board of Governors (BoG) meetings. There are 2 BoG meetings per year, one at the ASEE's annual conference (June) and one at the Frontiers in Education Conference (October). Members at large and officers are expected to attend a minimum of one of the BoG meetings every year of mandate.



**BIOGRAPHY:** Provide a biographical statement. This statement should be no longer than 200 words, exclusive of your IEEE and/or IEEE Education Society activities.

Dr. Mousavinezhad, Electrical Engineering Professor, Idaho State University is a Fellow of ASEE. He has published a book. He is an active member of IEEE and ASEE having chaired sessions in national and regional conferences. He is an ABET Program Evaluator for Electrical Engineering and Computer Engineering programs. He is the Founding General Chair of the IEEE International Electro Information Technology Conferences. Professor Mousavinezhad served as MGA Vice President and is now Van Valkenburg Early Career Teaching Award Chair for IEEE Education Society. He is a member of the Editorial Advisory Board of the international research journal ***Integrated Computer-Aided Engineering***. Dr. Mousavinezhad received his graduate degrees (MS, Ph.D.) in Electrical Engineering from Michigan State University and his BSEE degree from National Taiwan University. Professor Mousavinezhad served as Electrical & Computer Engineering chair at Western Michigan University (WMU) and as Electrical Engineering and Computer Science chair at Idaho State University (ISU). He served as ASEE ECE Division Chair and is also active in Computing and Information Technology and Energy Conversion & Conservation Divisions. He is serving as ISU Campus Representative to ASEE, also served as WMU Campus Representative. Recently he was a principal investigator on a National Science Foundation research grant (EARS program) and serves as an NSF panel reviewer. He served on ECEDHA Board of Directors and currently serves as the leader of WECEDHA group.

**IEEE EDUCATION SOCIETY/IEEE ACTIVITIES:** List your positions with dates of service (do NOT list the details of the position unless they are not apparent):

CONFERENCES: Founding General Chair of IEEE International Conferences on Electro Information Technology.

PUBLICATIONS:

STANDARDS:

COMMITTEES or BOARDS:

CHAPTERS, SECTION or REGIONS: R4 Educational Activities Chair, 2000 - 2005

Other IEEE Units: IEEE West Michigan Section, Secretary, Treasurer, Newsletter Editor, Vice Chair, Chair, 1990 – 2007.

**QUALIFICATIONS:**

What are your qualifications for this position? (*i.e.*, what makes you an ideal candidate for this position? (Please keep your response to 200 words or fewer)

I have organized IEEE eIT Conferences since 2000. Also I have served on the organizing committees of the ASEE North Central Section conferences. I have moderated sessions in national international conferences and given keynote talks. I review regularly for IEEE Transactions, IEEE and ASEE Conferences.

**MAJOR ACCOMPLISHMENTS:**

List the major contribution(s) (up to five) you have brought to the IEEE Education Society in your previous assignments. If you have not volunteered for the IEEE Education Society before, list relevant contributions you have made with other organizations or in related work experience (Please keep your response to 200 words or fewer).

- Membership Development committee chair
- Past MGA Vice President
- Currently serve as Mac E. Van Valkenburg Early Career Teaching Award Selection Committee Chair
- ASEE ECE Division Chair
- ABET PEV

**POSITION STATEMENT:**

If elected to the position, what are your plans and how will they help support the [IEEE Education Society](#)? Up to 200 words

I have been active in IEEE Education Society since Year 2000, I believe EdSoc has important role to play in Engineering Education worldwide. After serving in the Society for a number of years I like to help in the area of Conferences & Workshops. In addition to being active in IEEE and ASEE Conferences, in 2014 and 2015 I organized Research Symposium as well as a Workshop dealing with engineering education and research issues in the area of enhancing access to radio spectrum, both symposium and workshop were partially funded by the National Science Foundation EARS Program. In 2000 I started organizing IEEE International Conferences on Electro Information Technology, these conferences have been very successful, the 18<sup>th</sup> Conference will be hosted by Oakland University in May of 2018.



## Nomination for Office - IEEE Education Society - 2017

To assume office on 1 January 2018

**CANDIDATE NAME:** Prof. Henrique M D Santos

### POSITION NOMINATED FOR:

- 2018-2020 Board of Governors member at large
- 2018-2019 Vice President for Publications
- 2018-2019 Vice President for Conferences and Workshops
- 2018-2019 Secretary

### **BIOGRAPHY:** Prof. Henrique M. D. Santos, received his first degree in Electric and



Electronic Engineering, from the University of Coimbra, Portugal, in 1984. In 1996 he received the PhD degree in Computer Engineering, from the University of the Minho (UM), Portugal and the habilitation degree in 2013, by the same institution. Currently he is an Associate Professor at the Information Systems Department, University of Minho. Integrated researcher at ALGORITMI Research Centre (UM), being responsible for the supervision of several postgraduate students and the coordination of several R&D projects, mainly in the Information Security area – emphasis on Cybersecurity education – and Computer Architecture. He authored and co-authored several

scientific publications and co-authored a patent with an industrial partner, in 2012, in the biometric area. He is also the President of a national Technical Committee (CT 136) for information system security standardization, Vice President for Conferences and Workshops of IEEE Education Society, President of the Portuguese Association for Data Protection (APPD) and integrates frequently scientific committees supporting civil, governmental and military organizations in the Information Security subject. During the second semester of 1990, under an ERASMUS program, he was teaching at the University of Bristol, United Kingdom, where he was recognized as University Academic staff.

**IEEE EDUCATION SOCIETY/IEEE ACTIVITIES:** List your positions with dates of service (do NOT list the details of the position unless they are not apparent):

CONFERENCES: Vice President for conferences and workshops of EdSoc, since January 2017; participation (chair, technical program chair, workshops chair) in the organization of several IEEE and non-IEEE conferences; regular participation in the scientific committee of several IEEE and non-IEEE conferences

PUBLICATIONS: More than two hundred scientific papers and book chapters published in journals, periodicals and proceedings within IEEE and other reputed publishers. Regular reviewer for conferences and journals, both for IEEE and non-IEEE resources.

**STANDARDS:** President of the Portuguese Technical Committee for standardization in Information Security area – following ISO/IEC SC 27; member of the IEEE P7002™, Standard for Data Privacy Process Working Group, of the IEEE Standards Association (IEEE-SA), since February 2017.

**COMMITTEES or BOARDS:** member of the Board of Governors of IEEE Education Society, since January 2017; member of IEEE Computer Society Technical Committee on Computer Architecture, since 2012; member of IEEE Computer Society Technical Committee Security and Privacy, since 2012;

**CHAPTERS, SECTION or REGIONS:**

Other IEEE Units: member of computer society, since 1998; member of IEEE Biometrics Council, since 2013; member of IEEE Cloud Computing Community, since 2014; member of IEEE Cybersecurity Community, since 2015; member of IEEE Internet of Things Community, since 2014; member of IEEE Smart Cities Community, since 2014.

### **QUALIFICATIONS:**

What are your qualifications for this position? (*i.e.*, what makes you an ideal candidate for this position? (Please keep your response to 200 words or fewer)

During his professional career, as university professor in Computer Science, Information Systems and Electronic Engineering, he has held leadership and governance roles for a number of organizations / units, involving large communities, with particular relevance:

- director of the Information Systems Department, University of Minho
- director of the ALGORITMI Research Center, University of Minho
- president of the Portuguese Association for Data Privacy (APPD)
- Chairman of Technical Commission CT 163 for national monitoring of ISO / IEC SC 27
- pedagogical coordinator of the Cybersecurity and Cyberdefense courses, within the framework of the Multi National Cyber Defense Education and Training project (OTAN initiative)
- member of the SysSec International community (European network of excellence)
- member of the National Initiative for Cybersecurity Education (NICE), governed by NIST
- Vice President of the Braga Kindergarten Association

### **MAJOR ACCOMPLISHMENTS:**

List the major contribution(s) (up to five) you have brought to the IEEE Education Society in your previous assignments. If you have not volunteered for the IEEE Education Society before, list relevant contributions you have made with other organizations or in related work experience (Please keep your response to 200 words or fewer).

. Participation in a patent application, WO2013006071 A1, "System and method for intrusion detection through keystroke dynamics", jointly required by critical software and the University of Minho.

- . Participation in the preparation of the Portuguese version of ISO / IEC 27001 – NP ISO/IEC 27001:2013 (Sistema de Gestão de Segurança da Informação – Requisitos).
- . As director of a protocol between the University of Minho and the Military Academy, he was responsible for the implementation of extra-curricular two weeks courses in Leadership (for university students) and Information Society (for students of the Military Academy).
- . Responsible for the elaboration of the curricular structure and definition of the body of knowledge for a professional course in Computer Programming Techniques, a joint initiative of the universities of Minho, Aveiro and Beira Interior and also of Microsoft and Forino School.
- . Participation in the elaboration of the curricular structure and definition of the body of knowledge for the Cybersecurity and Cyber Defense post-graduation course, under the Multi National Cyber Defense Education and Training OTAN project.

### **POSITION STATEMENT:**

If elected to the position, what are your plans and how will they help support the [IEEE Education Society](#)? Up to 200 words

I joined IEEE in 1997. Since then I have always been fascinated by how an organization of this size can maintain a very broad work dynamic and high performance levels. It is not difficult to recognize the importance that conferences (as events of dissemination of knowledge and networking of people) assume in the IEEE and, of course, in all its subunits. From the beginning of my professional activity, I recognized the innovative aspects and drivers of IEEE conferences, having benefited several times from this activity. With the experience I acquired during these years and with some sense of mission, I believe the time has come to seek my contribution, specifically in the field of Engineering Education (my professional focus), whose challenges are enormous in today's world. And it is with the encouragement and teachings left by all those who succeeded in this position that I humbly submit to these elections, promising only to do my best so that the IEEE EdSoc conferences increase even more their already great recognition as a place of excellence for discuss and define the new ways of teaching engineering.

**Candidates for Vice President for  
Publications and Media  
Biographies**



## Nomination for Office - IEEE Education Society - 2017

To assume office on 1 January 2018

**CANDIDATE NAME:**

**POSITION NOMINATED FOR:**

**[X] 2018-2019 Vice President for Publications and Media**

**NOTE:** the Education Society does not reimburse costs of travel/hotel for attending the Board of Governors (BoG) meetings. There are 2 BoG meetings per year, one at the ASEE's annual conference (June) and one at the Frontiers in Education Conference (October). Members at large and officers are expected to attend a minimum of one of the BoG meetings every year of mandate.



**BIOGRAPHY:** Provide a biographical statement. This statement should be no longer than 200 words, exclusive of your IEEE and/or IEEE Education Society activities.

**Martin Llamas-Nistal** received the Eng. and Ph.D. degrees in telecommunication from the Polytechnic University of Madrid, Spain, in 1986 and 1994, respectively. He is a faculty member in the Higher Technical School of Telecommunication Engineers, University of Vigo, Spain, since March 1987. From 1994 to 1997 he was Vice Dean of this School. From 1999 to 2003, he was the head of the ICT Area of the University of Vigo. He is author or coauthor of more

than 200 papers in peer-reviewed international refereed journals and conference proceedings. He has directed several national and international research projects in telematics and technology enhanced learning fields.

Dr. Llamas-Nistal is member of the ACM, and senior member of IEEE. He is member of the program committees of different international conferences and workshops. He has received several awards from the W3C (Highlight Paper in the WWW 2001, and Education Track Best Paper and Conference Best Paper Finalist in the WWW 2002) and from the IEEE (the 2007 Chapter Achievement Award for the Spanish Chapter as an outstanding model of technical activities, membership services, and professional development in Spain and Latin America, the 2010 Distinguished Chapter Leadership Award, the 2011 IEEE Education Society Chapter Achievement Award, and the IEEE EDUCON 2015 Meritorious Service Award).

**IEEE EDUCATION SOCIETY/IEEE ACTIVITIES:** List your positions with dates of service (do NOT list the details of the position unless they are not apparent):

**CONFERENCES:**

- General Co-Chair of IEEE EDUCON 2012, 2013, 2014 and 2018
- Member of IEEE EDUCON Steering Committee, 2012-2015
- Member of IEEE EDUCON Program Committee, 2010-2018
- Co-Chair of IEEE EDUCON Program Committee, 2010.
- Member of IEEE EDUCON International Advisory Board, 2010-2011.
- Member of the ICALT Program Committee (2008-2016).
- Member of the Program Committee of EC-TEL (European Conference On Technology Enhanced Learning), 2011-2017
- President of the Steering Committee of the SIIE Conference, technically co-sponsored by the IEEE-ES (2014 -2017).
- Member of the Program Committee of SIEE Conference (2000-2017).
- Member of the Organization Committee of 2001, 2004 and 2006.
- President of the Program Committee of SIEE Conference 2006 and 2015.
- President of the Organization Committee of TAAE2012 Conference, and member of its Program Committee, a conference technically co-sponsored by the IEEE-ES (2012).
- Member of Program Committee of TAAE2014 and TAAE2016, technically co-sponsored by the IEEE-ES (2014, 2016).

**PUBLICATIONS:**

- Editor-in-Chief of the IEEE REVISTA IBEROAMERICANA DE TECNOLOGÍAS DEL/DA APRENDIZAJE/APRENDIZAGEM (IEEE-RITA) since its founding (2006 – present).
- Co-founder of the IEEE REVISTA IBEROAMERICANA DE TECNOLOGÍAS DEL/DA APRENDIZAJE/APRENDIZAGEM (IEEE-RITA).
- Member of the Steering Committee of the IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES since its founding (2008 – 2013).
- Associate Editor of IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES (2014-Present)
- Collaborator of News & Notes (2005- 2006)
- Associate Editor of News & Notes (2007-2012)
- Founder of the TICAI (<http://romulo.det.uvigo.es/ticai>) (ICTs applied to Engineering Learning) book series and President of its Steering Committee (2006 – present). This book series is sponsored by the IEEE-ES Spanish Chapter in collaboration with other ibero-american IEEE-ES chapters, such as the Portuguese, Brazilian and Colombian Chapters.
- Co-editor of the TICAI Books in 2006, 2007 and 2008 editions.
- Vice-president for Publications of the IEEE-ES (2011 – present).

**STANDARDS:**

- Member of the 1876 Working Group of the IEEE-SA (2014 – present)

**COMMITTEES or BOARDS:**

- Member of the IEEE-ES BoG (2008 – present)

- Chair of the IEEE-ES Publications Committee (2010 – present).
- Member of the Strategic Planning Committee (2009 – present).

CHAPTERS, SECTION or REGIONS:

- Member of the Board of Directors of the IEEE-ES Spanish Chapter from its founding (2004 – present)
- Chair of the IEEE-ES Spanish Chapter (2008 – 2010).

Other IEEE Units:

**QUALIFICATIONS:**

What are your qualifications for this position? (*i.e.*, what makes you an ideal candidate for this position? (Please keep your response to 200 words or fewer)

I feel very qualified for this position because I have been working in publications for the past 10 years. In 2006, and together with Manuel Castro, I worked on the launching of a new journal, IEEE-RITA. And in 2012 we worked in presenting to the IEEE-TAB Periodicals Committee all the documentation in order to achieve the approval of IEEE-RITA as an official IEEE Journal. Since 2006 I am serving as EiC of IEEE-RITA, and from this approval in 2012, also as EiC of VAEP-RITA, the Spanish/Portuguese version of IEEE-RITA. I participated in the launching of the IEEE Transactions on Learning Technologies, a journal sponsored by the IEEE-ES and IEEE Computer Society, serving as a member of its Steering Committee from its launching to 2013, and then as Associate Editor.

In 2006 and with the support of the IEEE-ES Spanish Chapter, I launched the TICAL book Series, and since that year I am serving as the Chair of its Steering Committee, being co-editor of the 2006, 2007 and 2008 editions.

Since 2010 I am serving as Chair in the IEEE-ES Publications Committee, and from 2011 as IEEE-ES Vice-President for Publications. I participated in the committee for the election of the new EiC of IEEE-ToE.

**MAJOR ACCOMPLISHMENTS:**

List the major contribution(s) (up to five) you have brought to the IEEE Education Society in your previous assignments. If you have not volunteered for the IEEE Education Society before, list relevant contributions you have made with other organizations or in related work experience (Please keep your response to 200 words or fewer).

- 1.- Launching (together with Manuel Castro) of IEEE-RITA (2006) and approval as an IEEE official Journal by the IEEE-TAB (2012).
- 2.- Launching of the Digital Library of IEEE-ES, as a result of new initiative projects.

- 3.- Contributing in the Strategic Committee to establish the future strategic plan of IEEE-ES.
- 4.- Strengthening the IEEE -ES publications through the Publication Committee and serving as Vicepresident for Publications.
5. Participation in the launch and subsequent monitoring (2008-2013) of IEEE - TLT (joint publication of the IEEE-ES and IEEE – Computer Society), through its Steering Committee.
6. Managing (during this year 2017) the withdraw of the Computer Society of IEEE-TLT, and assumption of the EdSoc as the sole economic sponsor of IEEE-TLT.

### **POSITION STATEMENT:**

If elected to the position, what are your plans and how will they help support the [IEEE Education Society](#)? Up to 200 words

1. Support current society magazines so they can get the largest international scientific and technical recognition in the ISI and SJR indexes.
2. Organize the election of the EIC of IEEE Transactions on Education and IEEE Transactions on Learning Technologies
3. Be permanently open to cooperate with other societies and institutions to launch joint publications.
4. Integrate the IEEE-TLT as a journal of EdSoc, and achieve its economic sustainability.
5. Study the sustainability and viability of the IEEE Technology and Engineering Education ( ITEE ) magazine ( <http://itee-edsoc.com/index.php/itee> ).
6. Support the new stage of "The Interface" as the platform to Promote dialogue from the pedagogical point of view in Engineering Education.
7. Relaunch of News & Notes as a newsletter of the various activities of our society.



## Nomination for Office - IEEE Education Society - 2017

To assume office on 1 January 2018

### CANDIDATE NAME:

### POSITION NOMINATED FOR:

- 2018-2020 Board of Governors member at large
- 2018-2019 Vice President for Publications
- 2018-2019 Vice President for Conferences and Workshops
- 2018-2019 Secretary

**NOTE:** the Education Society does not reimburse costs of travel/hotel for attending the Board of Governors (BoG) meetings. There are 2 BoG meetings per year, one at the ASEE's annual conference (June) and one at the Frontiers in Education Conference (October). Members at large and officers are expected to attend a minimum of one of the BoG meetings every year of mandate.



**BIOGRAPHY:** Dr. Pears is Professor, Deputy Head of Department and Division Head of the Computer Systems Division, Department of Information Technology, Uppsala University, SWEDEN. He directs the UpCERG group and the CeTUSS Swedish National Center for Student and Societally Relevant Engineering Education. He is Chair of the Strategic Advisory Board of the Uppsala University Center for STEM Higher Education Research, and member of the Uppsala University Academic Senate and pedagogical advisory board to the Faculty of Science and Technology.

Arnold received his BSc(Hons) and PhD from La Trobe University, AUSTRALIA. Arnold is an IEEE Senior Member, Computer Society Golden Core Member(2012), receiving the Schmitz Award (2012) for services to the FIE conference. He has published more than 100 articles in major conferences and journals and has served as conference and program committee chair for many major conferences under the auspices of the IEEE and ACM. For more information [www.it.uu.se/katalog/arnoldp](http://www.it.uu.se/katalog/arnoldp)

**IEEE EDUCATION SOCIETY/IEEE ACTIVITIES:** List your positions with dates of service (do NOT list the details of the position unless they are not apparent):

### CONFERENCES:

IEEE Frontiers in Education, Steering Committee 2009-2016

- Chair 2011-2012
- Programme co-chair 2011, 2014
- Dasher "Best Paper" Awards Committee member 2009-present
- Founder, Sponsor and Publications Chair, IEEE International Conference on Learning and Teaching in Computing and Engineering (LaTiCE) 2012-present

### PUBLICATIONS:

Assistant Editor in Chief of "Transactions on Emerging Topics in Computing"

### STANDARDS:

None

COMMITTEES or BOARDS:

Computer Society Board of Governors 2012-2014  
IEEE Internet of Things Education Track Chair New Initiatives Committee.  
IEEE Computer Society Education and Professional Activities Board 2009-present  
Chair of IEEE Computer Society STC Education 2012-present

PUBLICATIONS:

Associate Editor in Chief of “Transactions on Emerging Topics in Computing”

STANDARDS:

N/A

COMMITTEES or BOARDS:

Computer Society Board of Governors 2012-2014  
IEEE Internet of Things Education Track Chair New Initiatives Committee.  
IEEE Computer Society Education and Professional Activities Board 2009-present  
IEEE/ACM Computing Curriculum 2020 task force member

CHAPTERS, SECTION or REGIONS:

Chair of IEEE Computer Society STC Education 2012-present

Other IEEE Units:

Chair: IEEE Education Society, Nordic Chapter 2010-2014  
Member: Sweden Section 2000- present

**QUALIFICATIONS:**

What are your qualifications for this position? (*i.e.*, what makes you an ideal candidate for this position? (Please keep your response to 200 words or fewer)

Combining over **twenty years of leadership** and academic research and development experience with **insights into the organisational and operational challenges** I have assembled direct **experience and insight** into a range of operational aspects that are **central to the Education Society mission**.

My contributions include **recruitment of new IEEE members**, and the **establishment of successful activities**, particularly work in the **Nordic Chapter, and Conferences**. I have developed **management and interpersonal skills directing** a department that currently has over **280 employees**. I have **considerable experience with budget oversight and financial management**, managing a budget of over a million US dollars annually.

I am **committed** to helping the Education Society to increase its relevance to members, and **re-imagine its global role** as the leading professional association for engineering education. I am ideally positioned to contribute to **re-engineering key core elements of our activities, focussing on enhancing the relevance of engineering education and careers in engineering**.

**MAJOR ACCOMPLISHMENTS:**

List the major contribution(s) (up to five) you have brought to the IEEE Education Society in your previous assignments. If you have not volunteered for the IEEE Education Society before, list relevant contributions you have made with other organisations or in related work experience (Please keep your response to 200 words or fewer).

1. Established the IEEE Computer Society STC for Education and through that STC established the LaTiCE conference series in Asia in 2013.
2. Lead the education track of the IEEE Initiative in Internet of Things
3. Contributed to the growth and success of the IEEE Frontiers in Education conference series increasing reporting transparency and through implementing new financial initiatives re-establishing the profitability of the conference series.
4. Spearheaded the development of the UpCERG research group in Uppsala over the past decade to establish it as an internationally leading research group in Engineering and Computing Education research.
5. IEEE representative on the Computing Curriculum 2020 task force, a joint enterprise to establish internationally relevant curriculum standards for computing and related disciplines.

### **POSITION STATEMENT:**

If elected to the position, what are your plans and how will they help support the [IEEE Education Society](#)? Up to 200 words

The IEEE collectively faces organisational and structural challenges adapting its core activities of standards and publications to a decentralised information society in which traditional standards and publication models no longer serve many of our members as they did in the past.

IEEE Education Society is dedicated to enhancing education in all areas of engineering and increasing the relevance of engineering to future generations of young people. Ours is a society of volunteers, with volunteers, for volunteers. Understanding how to increase the relevance of membership is a key current challenge. We need to innovate and understand better the types of support our community desires in their education or profession. Supporting our members in their professional lives is vital to our continued success. I will work to gain a better understanding of how the Education Society can increase their relevance and appeal across the globe.

My extensive decades of experience as STEM researcher and departmental leader equip me to make significant contributions to policies, initiatives and curricula and pedagogical standards. Thought leadership is central to our goal to improve our professional support for students and professionals both through education and after graduation. I offer my services to the community in the pursuit of these goals.

# **Candidate for Secretary Biography**



## Nomination for Office - IEEE Education Society - 2017

To assume office on 1 January 2018

**CANDIDATE NAME:** Prof. Melany M. Ciampi

### POSITION NOMINATED FOR:

- 2018-2020 Board of Governors member at large
- 2018-2019 Vice President for Publications
- 2018-2019 Vice President for Conferences and Workshops
- 2018-2019 Secretary

**NOTE:** the Education Society does not reimburse costs of travel/hotel for attending the Board of Governors (BoG) meetings. There are 2 BoG meetings per year, one at the ASEE's annual conference (June) and one at the Frontiers in Education Conference (October). Members at large and officers are expected to attend a minimum of one of the BoG meetings every year of mandate.

### BIOGRAPHY:



**Prof. Melany M. Ciampi** is Professor of Electrical and Computer Engineering. She worked in several universities in her career. Since 1999 she is the President of Safety Health and Environment Research Organization (SHERO) and Vice President of Science and Education Research Council (COPEC). She is President of World Council on Systems Engineering and Information Technology (WCSEIT) and President of World Council on Communication and Arts (WCCA). She was Vice President of International Society for Engineering Education (IGIP) in 2010-2014. She received the B. Sc. in Industrial Engineering and M. Sc. and Ph. D. in Electrical Engineering. She is Dr. rer. nat. habil. (Habilitation) in Electrical and Computer Engineering and she is full professor in Electrical and Computer Engineering. She has her biography published in *Who's Who in the World*, *Who's Who in America*, *Who's Who in Science and Engineering* and other similar publications. She was the first woman professor from Americas to receive the title "International Engineer Educator". She has received many awards including several from the São Paulo State Science and Technology Secretariat, several international awards including one medal by appointment of the Queen of England.

### IEEE EDUCATION SOCIETY/IEEE ACTIVITIES:

**CONFERENCES:** Prof. Ciampi organized as Technical Program Chair more than 20 IEEE International Conferences and was Technical Program Chair in more 35 non-IEEE International Conferences in different countries; has spoken in more than one hundred conferences in the five continents.

**PUBLICATIONS:** She has more than two hundred scientific papers published in different countries, including journals in Portuguese, English and Russian languages. She has been reviewer and editor of many international journals.

**STANDARDS:** She has created the standards of submission papers for COPEC's conferences.

**COMMITTEES or BOARDS:** She was President of Brazilian Chapter of Education Society of the Institute of Electrical and Electronics Engineers, Inc (IEEE-EdSoc). She is member of Board of Governors of Education Society of the Institute of Electrical and Electronics Engineers, Inc (IEEE-EdSoc) in (2002-2005), (2005-2008) (2009-2012) and (2012-2015), Member of Strategic Planning Committee of Education Society of the Institute of Electrical and Electronics Engineers, Inc (IEEE-EdSoc) since 2009; Co-Chair of Intersociety Cooperation Committee of Education Society of the IEEE (IEEE-EdSoc) since 2011 until 2014 and Chair since then, Secretary of Education Society 2016-2017, Member of Ad-Hoc Committee: Dig Once of Technical Activities Board of IEEE since 2016, Member of Ad-Hoc Committee: IEEE in the North and South Poles of Technical Activities Board of IEEE since 2016, International Chair of FIE (ASEE/IEEE Frontiers of Education Annual Conference) since 2003 and Program Co-Chair of FIE2017.

**CHAPTERS, SECTION or REGIONS:** She has been the chair of Brazilian chapter of IEEE Ed.Soc. from 2004 – 2005.

**IEEE Awards:** She received the Edwin C. Jones Jr. Meritorious Service Award of 2011 and Ronald J. Schmitz Award for Outstanding Service to the Frontiers in Education Conference of 2016.

## **QUALIFICATIONS:**

Along her accomplished career as Electrical Engineer Professor she was Vice President of IGIP and Representative of the Computer Engineering in Network of Integration and Academic Mobility of UNESCO; Councilor of Urban Development City Council (CMDU); Councilor of Economics Development City Council (CDES); Vice President of RCI (Cartagena Network of Engineering); Board Member of "Global Council on Manufacturing and Management" (GCMM) and Director of Brazilian Network of Engineering (RBE/SP).

She is Chair of Working Group "International Aspects of Engineering Education" in IGIP (International Society for Engineering Education) since 2001 and Vice President of Brazilian Monitoring Committee; President of Safety, Health and Environment Research Organization (SHERO), President of World Council on Communications and Arts (WCCA), President of World Council on Systems Engineering and Information Technology (WCSEIT) and Vice President of Science and Education Research Council (COPEC) and Member of Board of Governors of International Council for Engineering and Technology Education (INTERTECH).

She has a large national and international experience as well as serving IEEE-EdSoc Board of Governors for more than 16 years and 2 years as Secretary what makes of her a good candidate to continue in the position of Secretary.

## **MAJOR ACCOMPLISHMENTS:**

As a Board Member at Large in my third term She has served at the BOG of IEEE-EdSoc being present in every meeting and along the Board taking decisions for the government of the society. As Member of Strategic Planning Committee I contributed for the construction of the strategic plan for the society for next years.

As Co-Chair (and Chair) of Intersociety Cooperation Committee I am responsible for the agreements between IEEE-EdSoc and sister societies, the ones that work for the betterment of engineering education such as LACCEI, SPEE, SEFI, IGIP and others.

Technical Program Chair (multiple conferences) disseminating the actions of the society enhancing the awareness of its importance as a global organization.

As chair of Brazilian Chapter of Ed.Soc I have performed the actions and meetings concerning the continuation of the chapter despite the large area that it covered.

As President and Vice President of organizations of research I perform in order to enhance science and technology for the betterment of humanity and as an educator researcher I search for the betterment of teaching engineering in a global scale.

As Secretary of IEEE I have been actively participating of some meetings of TAB including two AdHoc committees Dig Once and North and South Poles

## **POSITION STATEMENT:**

When I got my engineering degree I became member of IEEE-EdSoc and started the rewarding journey serving this society.

I have enjoyed being involved on a variety of levels and hope that I can continue my service to IEEE-EdSoc. As Secretary by helping advance the work of the organization to grow membership, provide additional benefits to members and expand educational opportunities for engineering teachers. I can foresee many exciting opportunities on the horizon for IEEE-EdSoc, especially with the recent awareness of the importance of engineering education in a global scale.

Please know that I am deeply committed to the betterment of engineering education for more than 3 decades along with the mission of educating and spreading awareness of the IEEE-EdSoc, in all the conferences organized by COPEC and as the chair of IEEE-EdSoc Intersociety Cooperation Committee.

It would be an honor to be elected as Secretary and I sincerely hope that you take part in the election process and consider me for your vote. My biography and contact information is in [http://www.copec.eu/dr\\_ciampi.asp](http://www.copec.eu/dr_ciampi.asp) for your reference. I appreciate this opportunity to present myself for all the members.