NOMINEES FOR COMPUTER SOCIETY OFFICERS AND BOARD OF GOVERNORS POSITIONS IN 2017

On the following pages are the position statements and biographies of the IEEE Computer Society’s (CS’s) candidates for president-elect, first and second vice presidents, and Board of Governors. Within each category, candidates are listed in alphabetical order. Election of officers to one-year terms and of Board members to three-year terms, each beginning 1 January 2017, will be by vote of the membership as specified in the bylaws.

Only CS members without an email address in their member record, or those who have opted out of IEEE email communications, will receive a paper ballot package. Those who receive paper ballots should return them by mail using the business reply envelope provided or to IEEE Technical Activities, ATTN: SGA, 445 Hoes Lane, PO Box 1331, Piscataway, NJ 08855-1331, USA.

All other members will receive a broadcast email message with voting instructions to access their Web ballot package information.

Members (undergraduate students are not eligible to vote) in all regions can vote via the Web at www.computer.org/election2016. For replacement ballots or to request a paper ballot, email ieee-computervote@ieee.org or call +1-732-562-3904.

The opinions expressed in the statements are those of the individual candidates and do not necessarily reflect CS positions or policies.

Ballots must be returned no later than 12:00 noon EDT on Monday, 26 September 2016. Results will be announced in Computer’s December issue.

NOMINEES FOR PRESIDENT-ELECT

Hironori Kasahara

POSITION STATEMENT. The importance of technologies related to the IEEE Computer Society (CS) has been increasing to realize more convenient, efficient, and comfortable ways of life, such as deep learning, the Internet of Things, big data, security, smartphones, smart cities, self-driving automobiles, medical image processing, robotics, reliable software, disaster survival servers, high-performance computing, and so on. Promoting these advanced technologies through research, education, conferences, publishing, member services, standardization, awards, and historical archiving is the CS’s mission.

Numerous invaluable volunteers have supported all of the CS’s activities. Having 35 years of membership and volunteer work experience, I think it is crucial to express our appreciation to these volunteers more explicitly.

On the other hand, international technical societies including the CS have problems, such as the decrease of membership and competing with various new activities on the Internet.

Taking into account these facts, we should rethink the CS’s roles, significances, and capabilities for our future.

Hausi A. Müller

POSITION STATEMENT. The 70th anniversary of the IEEE Computer Society (CS) is an opportunity to reflect on computing’s great innovations—from the microelectronics and information technology revolutions in the first two decades to the proliferation of cyber-physical computing ecosystems today. Since computing is permeating every aspect of society, it is imperative that the CS champions computing innovation to serve thought leaders worldwide for the benefit of humanity.

To sustain the CS’s excellence for the next 30 years, we must focus on the quality of the core assets of this volunteer-led organization, including a wide spectrum of technical conferences for exchanging ideas and networking; a digital library with high-quality journals, proceedings, and magazines; global technology standards; excellent career development resources (webinars and bodies of knowledge); the vision and dedication of a large network of staff and volunteers; and the vast technical expertise of its members, chapters, communities, and committees. The CS must continue to earn the trust of computing professionals and provide extensive opportunities for
Hironori Kasahara continued from previous page

Examples include refining content and services to further improve the satisfaction of CS members; considering an incentive for volunteers to further accelerate CS activities and promptly provide technical benefits for people around the globe; offering more attractive services for practitioners in industry; providing the world’s best educational content and historical treasures for future generations, which only the CS can create with our pioneering researchers (for example, the Multicore Compiler Video Series found at www.computer.org/web/education/multicore-video-series); thinking about sustainable membership fees while considering the diversity of economic situations within the 10 regions; cooperating with other IEEE societies and sister societies in a timely and efficient manner; and intelligibly introducing the latest computer-related technologies to younger generations, including children, so that they can realize their technological dreams.

I believe my 35 years of research experience on multiprocessors, multicores, parallelizing compilers, scheduling, and power reduction, along with my 30 years of experience in academia, industry, and government collaborations, including a startup, would be useful for the CS to create advanced products and services that are attractive to both young and experienced members and potential members.

For more information, please visit www.kasahara.cswaseda.ac.jp/kasahara.html.en.

BIOGRAPHY. Hironori Kasahara has served as a chair or member of 225 society and government committees, including a member of the CS Board of Governors; chair of CS Multicore STC and CS Japan chapter; associate editor of IEEE Transactions on Computers; vice PC chair of the 1996 ENIAC 50th Anniversary International Conference on Supercomputing; general chair of LCPC; PC member of SC, PACT, PPoPP, and ASPLOS; board member of IEEE Tokyo section; and member of the Earth Simulator committee.

He received a PhD in 1985 from Waseda University, Tokyo, joined its faculty in 1986, and has been a professor of computer science since 1997 and a director of the Advanced Multicore Research Institute since 2004. He was a visiting scholar at University of California, Berkeley, and the University of Illinois at Urbana-Champaign’s Center for Supercomputing R&D.

Kasahara received the CS Golden Core Member Award, IFAC World Congress Young Author Prize, IPSJ Fellow and Sakai Special Research Award, and the Japanese Minister’s Science and Technology Prize. He led Japanese national projects on parallelizing compilers and embedded multicores, and has presented 210 papers, 132 invited talks, and 27 patents. His research has appeared in 520 newspaper and Web articles.

Hausi Müller continued from previous page

professional networking, career development, and lifelong learning.

I intend to focus on the following core challenges faced by the CS: recruiting new members—particularly students, young professionals, and practitioners; balancing financial sustainability with the CS mission—broadening its technical activities while developing resilience to declining publication revenues; focusing on industry needs in CS activities; effectively communicating CS relevancy and benefits to technical communities; collaborating with other societies; expanding the CS’s international reach and presence; managing the proliferation and competition among events for the attention of participants; implementing open access; and expanding the career development portfolio through strategic partnerships with corporations and institutions.

Over the years, I have exhibited strong leadership and commitment in many different roles as a CS volunteer. Serving on the CS Board of Governors and Executive Committee as VP of the Technical and Conferences Activities Board, I gained deep insight into CS governance including decision-making, accountability, and grooming the next generation of leaders. Thus, I am well prepared to be CS’s president and serve its members. Hence, I kindly ask for your vote. To probe further, please visit my election website: http://csc.uvic.ca/muller-cs-president-elect.

BIOGRAPHY. Hausi A. Müller, who joined the CS as a student member in 1979, serves as the 2016 VP of the Technical and Conferences Activities Board, is an elected member of the CS Board of Governors (2015–2017), and was past chair of the Technical Council on Software Engineering (TCSE). He served on the IEEE Transactions on Software Engineering editorial board for 12 years. Müller is cofounder of the SEAMS conference series (ACM/IEEE International Symposium on Software Engineering for Adaptive and Self-Managing Systems). He was general chair of ICSE 2001 and ICSME 2014, and recently program cochair of WF-IoT 2015 and CASCON 2016.

Müller is a professor of computer science and associate dean of research, Faculty of Engineering, at the University of Victoria, Canada. He is a Fellow of the Canadian Academy of Engineering and a CS Golden Core member, and received the 2016 TCSE Distinguished Service Award. He is an international expert in software engineering, self-adaptive systems, cyber-physical systems, and program understanding, collaborating extensively with industry. He was co-organizer of the 2005 event honoring 90 computing pioneers in Canada. Müller received a BS in electrical engineering from ETH Zurich and a PhD in computer science from Rice University in Houston.
NOMINEES FOR FIRST VICE PRESIDENT

David Lomet

POSITION STATEMENT. The Computer Society (CS) serves our field well, supporting conferences, periodicals, education, standards, and more. But it must adapt to a world enabled by prior successes, while sustaining technical leadership and financial strength. This requires fast entry into new areas, additional high-quality conferences, open access, online communities, and more. The Society must exploit technologies it helped create—big data, cloud, mobility, and online learning. We are well-positioned to succeed, but success requires adapting our financial model. And we must reach out to members, encouraging and empowering them to expand their engagements.

While on the Board of Governors (BoG), I initiated and helped lead the effort of empowering TCs to do more with ongoing budget balances earned from conferences they support. I have advocated for further empowering TCs and conference organizers, increasing their governance visibility and impact, urged simplification of the CS organization, and enhanced digital library indexing capability. My focus is on empowering and encouraging active members, whether they are involved with conferences, publications, chapters, or elsewhere. This is the key to both technical success and financial viability.

Society challenges require the careful thinking, planning, and involvement of many people—members, TC chairs, CS leaders, and staff. My prior service at the TC level and at the BoG has helped move the Society in the right direction. I want to continue being involved, and ask for your vote for first vice president, and to engage with me afterward. Together we can ensure the CS’s success in the 21st century.

BIOGRAPHY. David Lomet founded the Database Group at Microsoft Research Redmond, and has worked at DEC, Wang Institute, and IBM. His career spans industrial research, academia, and product development. He received a PhD in computer science from the University of Pennsylvania.

Lomet has worked in architecture, languages, and systems. His primary focus is database systems. He is an inventor of transactions while on sabbatical at Newcastle-on-Tyne. He has authored more than 120 papers (http://dblp.uni-trier.de/pers/hd/L/Lomet:David_B-+) with two SIGMOD best papers, and holds 56 patents. His recent Microsoft product impact includes the Bw-tree, used in both DocumentDB (www.vldb.org/pvldb/vol8/p1668-shukla.pdf) and SQL Server’s Hekaton main memory DBMS (www.vldb.org/pvldb/vol6/p1178-lomet.pdf).

Forrest Shull

POSITION STATEMENT. Two years ago I ran for the Board of Governors, promising to provide more “hard metrics for data-driven decisions.” On the Board, I’ve worked with many volunteers and staff to put the required data collection in place. I am asking for your support for first vice president to continue this work and better institutionalize the process across our many products and services.

Such data is proving instrumental in better managing the sheer breadth of our Society’s offerings. It is a central part of the portfolio review process. I am helping to define and pilot this year, which will provide our leadership with better insight into problem areas to be addressed, and will help call more attention to our successes. I am very proud that every year our conferences are attended by tens of thousands and our periodicals see millions of content downloads. It is likewise exciting to see the growth in new areas, such as the tens of thousands of podcast downloads and the crowds at Rock Star events, and to understand how they are helping make our content more accessible.

Today, it is even more important to understand how well our current offerings meet the needs of the community and to make strategic decisions about new initiatives informed by data. I hope to have the opportunity to continue working with stakeholders from across all parts of the Society to better understand how we serve the computing community and expand our influence.

BIOGRAPHY. Forrest Shull is the assistant director for Empirical Research at Carnegie Mellon University’s Software Engineering Institute (SEI). In this role, he leads work with the Department of Defense, other government agencies, industry, national labs, and academic institutions to advance the use of empirically grounded information in software engineering, cybersecurity, and emerging technologies. He has been a lead researcher on projects for NASA’s Office of Safety and Mission Assurance, winning multiple awards from the Agency, as well as for the Defense Advanced Research Projects Agency (DARPA), the National Science Foundation, and commercial companies.

He has volunteered at the Computer Society since 2007. From 2011–2014, he served as editor in chief of IEEE Software, one of the Society’s largest magazines as measured by subscriptions and content downloads. The initiatives he put in place with members of the editorial and advisory boards increased subscriptions, brought in multimedia content, attracted important thought leaders and energetic volunteers, and maintained a healthy
Lomet is on the CS Board of Governors and the T&C Board, served as ICDE PC and conference co-chairs, was chair of the TC on Data Engineering, and was an ICDE Steering Committee member. He received Computer Society Outstanding Contribution and SIGMOD Contributions Awards for serving as editor in chief of the IEEE Data Engineering Bulletin for 25 years (http://tab.computer.org/tcde/bull_about.html). He served as VLDB PC co-chair, on the VLDB board, and as an editor of ACM TODS and VLDB Journal. He is a CS Golden Core member and a Fellow of IEEE, ACM, and AAAS.

**NOMINEES FOR SECOND VICE PRESIDENT**

**David Lomet continued from previous page**

Lomet is on the CS Board of Governors and the T&C Board, served as ICDE PC and conference co-chairs, was chair of the TC on Data Engineering, and was an ICDE Steering Committee member. He received Computer Society Outstanding Contribution and SIGMOD Contributions Awards for serving as editor in chief of the IEEE Data Engineering Bulletin for 25 years (http://tab.computer.org/tcde/bull_about.html). He served as VLDB PC co-chair, on the VLDB board, and as an editor of ACM TODS and VLDB Journal. He is a CS Golden Core member and a Fellow of IEEE, ACM, and AAAS.

**Forrest Shull continued from previous page**

impact factor. In 2015 and 2016, he has served as the Society’s Magazines Operations Committee chair, and in 2016 as the Society’s treasurer.

Shull is the author of more than 80 peer-reviewed publications and co-editor of a handbook on empirical software engineering.

**Vladimir Getov**

**POSITION STATEMENT.** The IEEE Computer Society (CS) continues to enhance its global membership diversity while facing several important challenges that require the introduction of new initiatives and approaches.

First, because technological innovation keeps accelerating, we need to match better the unprecedented dynamics of the field by offering our members new organizational models based on modern communication platforms, such as social networking. Second, the future of our profession belongs to the younger generation of computer practitioners, and the CS must develop more technology- and career development–related training programs for recent graduates. Third, both new organizational approaches and continuous career development can only be successful as part of a truly global collaboration reaching from California, Brazil, and India to Japan, China, and Europe.

Over the years, I have developed an extensive and unique track record of international achievement and recognition involving an increasing number of strong professional contacts throughout the world. I have been actively involved in the introduction of digital media content in Computer and am committed to contributing substantially to the future development and implementation of various organizational and technological innovations in our publications. I am also motivated to work further on the successful integration of our conferences and journals, as some of the current differences will disappear because of the transition to e-publications. I will be honored to represent you as the CS’s second vice president and will work with enthusiasm and dedication on addressing these important challenges.

**BIOGRAPHY.** An active CS volunteer since the mid-1990s, Vladimir Getov has served as general and program chair of several IEEE conferences, is a member of the CS
at-large of the Publications Board (2012–2016). As 2016 CS secretary, he serves on the Executive Committee and also is involved with coordination of CS participation in IEEE new initiatives. He is a member of the Computer editorial board, as an area editor (2013–present) and column editor of the Student Design Showcase column (since 2015).

Byrd’s research is primarily in the area of parallel computer architecture. He received a PhD in electrical engineering from Stanford University. Prior to joining NC State, Byrd worked at Celotek, MCNC, NC Supercomputing Center, and Digital Equipment Corp. He has been general chair and program chair of the IEEE International Conference on Computer Design, and has served on program committees of several IEEE conferences and journals. Byrd received an Outstanding Teacher Award at NC State (2012) and the IEEE CS Golden Core Award (2016).

Saurabh Bagchi

POSITION STATEMENT. If elected, I will stress that the Computer Society (CS) is a meritocracy of ideas and that no voice is too small to be heard. This will involve engaging with our student members and ensuring that they continue to remain active in the CS as they transition to their professional lives, by providing them with practitioner-oriented technical information and a mentor–mentee network. I will strive to make the CS even more valuable to its members by providing essential reading lists and state-of-the-art digests on topical themes. I will organize entrepreneurial activities for members so that our innovations can make a difference in society. I will encourage greater recognition for early and mid-career members to help them blossom as our future leaders.

I have worked on several of these initiatives locally and within my technical committee, and if elected, will commit to spreading them society-wide. For details, visit https://engineering.purdue.edu/~sbagchi/Personal/ieee_statement.html.

BIOGRAPHY. Saurabh Bagchi is a professor of electrical and computer engineering at Purdue University. He received a PhD in computer science from the University of Illinois at Urbana–Champaign. Bagchi has received an IBM Award (2012), a Google Faculty Award (2015), and an AT&T Labs VURI Award (2016). He is the cyber lead in the GE-funded PRIAM center at Purdue (2015–present) and was the cybersecurity lead for the NSF-funded NEES center (2009–2014). He is an ACM Distinguished Scientist (2013), a Senior Member of IEEE (2007) and ACM (2009), and was an Assistant Director in Purdue’s CERIAS security center (2010–2014).

Bagchi remembers his first IEEE activity as a bright-eyed undergrad—starting a student club on programming for social good. More recently, he has served as the program chair for two premier dependable computing conferences, DSN and ISSRE, and is on the DSN Organizing Committee. He has received eight best paper or runner-up awards. Bagchi served as an editor for IEEE TMC (2008–2013) and Elsevier-CoSE (2013–present). He believes passionately in encouraging student participation in conferences and has served as student forum chair six times.

Bagchi’s research interests include distributed systems and dependable computing. He is an Advanced Toastmaster.

Vladimir Getov

Board of Governors, and is Computer’s area editor for high-performance computing. He is also a standing committee member of COMPSAC and co-chair of the ad hoc committee “Evolution of the Publication Space.”

Getov is a professor of distributed and high-performance computing, research group leader, and postgraduate program director at the University of Westminster, London. His career spans both industrial research and academia. After completing his PhD in computer science from the Bulgarian Academy of Sciences, Getov was project manager of an IBM PC/XT-compatible computer before moving to England. His extensive track record of international collaboration and achievements includes founding contributions to the PARKBENCH Committee, the Java Grande Forum, and the Open Grid Forum.

Getov is recognized by his peers for his commitment to service, leadership skills, and dedication to research and related professional activities. He has received several prestigious awards, including Honorary Professor at TU-Sofia, IBM Faculty Award, Bulgarian “Pythagoras” Science Award, and Outstanding Executive Committee Contribution Award. He is a Senior Member of IEEE and ACM, a BCS Fellow, and was Governor of ICCC.
Andy Long Chen

POSITION STATEMENT. The IEEE Computer Society (CS) is one of the world’s leading and highly respected professional organizations. As an IEEE CS board member, I would like to offer my 30 years of experience in the industry and related information technology fields and global network of contacts to help the Society to grow and flourish globally.

There are tremendous opportunities and potential for the CS to contribute and grow in the next decade. Developments in the Internet of Things, big data, artificial intelligence, machine learning, cybersecurity, robotics, and nanotechnologies will offer many exciting challenges and remarkable opportunities.

I feel that using my expertise as a technology adviser to various state-owned enterprises, along with my international consulting experience and global contacts, will enable me to promote our educational activities, membership, conferences, and professional activities.

I look forward to being a part of the CS during these exciting times.

BIOGRAPHY. Andy Chen has been an active CS member for the past two decades. He is the 2016 vice president of the CS Professional and Educational Activities Board. He is also a director for the Federation of Enterprise Architecture Professional Organization’s board and a member of the Technical Advisory Council for the FinTech Ideas Festival. He also served as the chair of ABB International User Board of Directors.

As an internationally recognized speaker, Chen was a keynote speaker at the World Computer Congress, the World CIO Forum, and recently the Digital Africa Conference. Chen has over 30 years’ experience in enterprise asset management, power generation, and public utility systems. As a professional engineer, he has extensive involvement in the design of real-time control and monitoring systems in generating stations.

Chen received a BSc in electrical engineering from University of Waterloo in Canada. His consulting and research interests include smart grid, smart cities, advanced distributed control computers, cyber control-room design, and enterprise assets life-cycle management.

Chen is fluent in Chinese and has extensive experience working with government officials in Asia. He has a demonstrated track record of successful collaboration with organizations in China and South Asia in recent years.

Leila De Floriani

POSITION STATEMENT. Serving as IEEE TVCG editor in chief and on the IEEE Computer Society’s (CS’s) Publications Board increased my understanding of the issues and benefits of various publication modes, including open access and new forms of collaboration between conferences and journals. I propose reviewing the effect of going digital on the services provided by the CS to its members. The CS Digital Library (CSDL) led to a reduction in subscription revenues due to its accessibility at members’ workplaces. It is fiscally prudent to explore new revenue sources and ways to exploit the CSDL’s assets, possibly in cooperation with other professional associations such as ACM, to provide, for example, citation-notification services. Moreover, my work experience at both US and European academic institutions gives me a deep understanding of academic and industrial research in both regions, and enables me to better respond to the needs of our members as they strive for professional growth.

BIOGRAPHY. Leila De Floriani is a professor of computer science at the University of Genova, Italy, where, for the past eight years, she served as the director of the PhD program in computer science. She is an adjunct professor at the University of Maryland, College Park. De Floriani has held positions at the University of Nebraska, Rensselaer Polytechnic Institute, the University of Maryland, and the Italian National Research Council. She founded research groups at the University of Genova and the University of Maryland, and will be joining the University of Maryland starting fall 2016.

De Floriani is a Fellow of IEEE and the International Association for Pattern Recognition (IAPR). She has been the editor in chief of IEEE Transactions on Visualization and Computer Graphics since 2015, and an associate editor of Graphical Models, ACM Transactions on Spatial Algorithms and Systems (TSAS), and GeoInformatica.

She has authored more than 280 peer-reviewed scientific publications in computer graphics, visualization, geometric modeling, image analysis, and geographic data processing, garnering several best-paper awards. De Floriani has served on the program committees of more than 150 leading international conferences, including a large number of IEEE-sponsored or cosponsored conferences.
David S. Ebert

POSITION STATEMENT. The Computer Society must be an agile and adaptive technology, global policy, and professional leader. We need to harness our membership's world-class expertise and innovation to provide international IT leadership, guidance, and direction. We must maintain our core values and high-quality products and services, while innovating to be market leaders. As vice president over the past two years, we started this process by introducing new products and events, improving member engagement, and strategically focusing our products and services while starting to streamline our operations. As a member of the Board of Governors, I will continue to actively engage young members worldwide as active Society volunteers to provide creative and responsive ideas, products, and services for our membership. Our goal must be to provide innovation, service, and value to our membership throughout their careers. Further information is available at www.davidebert.us/IEEECS_BOG.

BIOGRAPHY. David S. Ebert has been actively engaged in CS Board of Governors, conferences, technical committees, and publications activities for over 10 years. He has been treasurer, first vice president, second vice president, VP of Publications, and secretary of the Board of Governor's Executive Committee, as well as associate editor in chief and editor in chief of IEEE Transactions on Visualization and Computer Graphics, and an associate editor of IEEE Computer Graphics and Applications. Ebert has been a member of the CS Publications Board, Integrity Chair, Visualization and Graphics Technical Committee Executive Committee member, and an ACM SIGGRAPH Executive Committee member. He has been conference cochair, program cochair, and papers cochair of nine Society-cosponsored conferences and led the IEEE Visualization and Analytics Science and Technology conference advisory board. Ebert is the Silicon Valley Professor of Electrical and Computer Engineering at Purdue University and director of the Visual Analytics for Command Control and Interoperability Center, a Department of Homeland Security Center of Excellence. He has a PhD in computer science from Ohio State University and performs research in visualization, visual analytics, and computer graphics. He is an IEEE Fellow and received the Golden Core Award and Meritorious Service Award.

Jill I. Gostin

POSITION STATEMENT. In order for the IEEE Computer Society (CS) to provide outstanding service to its members, we need to have a robust understanding of their needs and issues. With a truly global membership and a wide span of technical areas, our members' needs are highly varied. The CS should provide local chapters with the knowledge and support needed in order to offer a diverse range of activities and events. I will draw on my experience from both the local level and the CS Membership and Geographic Activities (MGA) Board to help identify and respond to the needs of the chapters and their members. As a member of the CS Board of Governors, I will focus on the ever-changing needs of our members, will work to ensure that chapter officers have the tools they need, and will advocate for serving our members at all levels.

BIOGRAPHY. Jill Gostin currently serves as a member of the CS Board of Governors and as the CS MGA Board vice chair for Outreach and Geographic Activities. She also serves IEEE on the Sensors Council, the Region 3 ExCom, and on several Technical Activities Board and MGA committees. She has held multiple local-level positions, and has served on several IEEE conference committees. She is a member of the CS, the Aerospace and Electronic Systems Society, and Women in Engineering.

Gostin received an MS in applied mathematics from the Georgia Institute of Technology, and is a Principal Research Scientist and the Deputy Director of the Information and Communications Laboratory at the Georgia Tech Research Institute (GTRI). She has served on multiple GTRI and Georgia Tech committees and is currently the chair of the GTRI Awards Council. Gostin has worked at GTRI since 1985, where her recent work has focused on algorithm assessment and software testing and evaluation. She has authored or coauthored numerous technical papers, has won multiple technical and service awards, has managed large technical programs, was instrumental in creating an acoustic environment simulation, and has successfully developed fractal geometry applications. See her full bio at http://jgostin.wordpress.com.
William Gropp

**POSITION STATEMENT.** Conferences are one of the most important services provided by the IEEE Computer Society (CS). With over 10,000 attendees, the annual SC conference on supercomputing is by far the largest conference sponsored by the CS. This reflects the vibrant and growing community in high-performance computing (HPC), which includes computing, networking, and data analysis. The relationship between SC and the CS should and can be better, both in the support that the CS provides for the conference and the community and how the HPC community contributes to the CS. As a member of the Board of Governors, I will work to ensure the continued success of all CS conferences, including looking for ways that conferences can learn from each other, and improve services and reduce costs. I will advocate for greater participation by the HPC community in CS activities and for greater support of HPC by the CS. Visit http://tinyurl.com/groppBoG.

**BIOGRAPHY.** William Gropp holds the Thomas M. Siebel Chair in the Department of Computer Science, is director of the Parallel Computing Institute, and is chief scientist of the National Center for Supercomputing Applications (NCSA) at the University of Illinois at Urbana–Champaign. He received a PhD in computer science from Stanford University, and was on the faculty of Yale University’s Computer Science Department from 1982–1990. From 1990–2007, Gropp was a member of the Mathematics and Computer Science Division at Argonne National Laboratory. He received the CS’s Sidney Fernbach award in 2008 and the IEEE TCSC Award for Excellence in Scalable Computing in 2010, each recognizing his contributions to the MPI standard.

Gropp’s research interests are in parallel computing, software for scientific computing, and numerical methods for partial differential equations. His CS activities include leadership positions in the SC and Cluster conferences, including SC13 general chair, and membership in many technical program committees. Gropp has coauthored five books, 75 journals, and nearly 200 conference papers. He recently cochaired a national academy study on the future of advanced computing for NSF. Gropp is a Fellow of ACM, IEEE, and SIAM, and is a member of the National Academy of Engineering.

Sumi Helal

**POSITION STATEMENT.** Major advances in digital media and mobile devices are radically changing how we read and learn; how we get curious, search for information, and discover knowledge. Collaborative interactions are also redefining publications in which online discussions refine and extend shared publications into interactive living archives, unleashing more knowledge and higher value to our readership. Also, while conferences and publications are the gold standard for knowledge dissemination, there seems to be a growing need and opportunities for new products and services offering timely, focused, and strategically packaged knowledge to professionals and practitioners around the world.

Transformational changes need to be carefully and gradually planned and executed by the Computer Society (CS) to adapt to the aforementioned forces and to take advantage of the emerging opportunities. As a Board of Governors member, I would contribute to the understanding and analyses of these forces and assist in planning appropriate strategies, policies, and actions.

**BIOGRAPHY.** Sumi Helal has been actively involved with the CS for more than 25 years. He organized and chaired 26 conferences/workshops, 12 of which were sponsored by the CS. Helal has served extensively on editorial boards of 12 publications, six of which are CS boards, including editor in chief of Computer and associate editor in chief of Pervasive Computing. He served as a founding member of the CS Industrial Advisory Board Committee and as chair of the CS Technical Committee on the Internet. Helal also served as the 2009 coordinator of IEEE Region 3 activities.

An IEEE Fellow, Helal is a professor in the Computer and Information Science and Engineering Department at the University of Florida and director of its Mobile and Pervasive Computing lab. He received a PhD in computer science from Purdue University, and specializes in smart spaces and the Internet of Things (IoT), especially in the domains of aging, disabilities, health, and well-being. He has published more than 280 books and journals, and conference and workshop articles, with total citations approaching 10,000. He has been awarded nine US patents as inventor or coinventor and founded or cofounded three mobile and IoT technology startups.
Sy-Yen Kuo

POSITION STATEMENT. The IEEE Computer Society (CS) supports the needs of its members around the world, and is the place where we get information, network with professionals, and publish research results. The impact of computing on our daily lives has been increasing significantly due to the recent development of new technologies. Therefore, the support from the CS for its members to keep up with these advances will be much more necessary than ever before. My objective is to help raise the members’ awareness of today’s challenges and opportunities, and to educate the general public about the excitement of information technology.

I will do my best to:

› make the CS more attractive to people in industry and the younger generation;
› enhance services, enlarge membership, and promote high-quality publications and conferences; and
› develop relevant products, programs, and services targeted to underserved populations like young professionals, women, and members living in economically stressed areas.

BIOGRAPHY. Sy-Yen Kuo received a PhD in computer science from the University of Illinois at Urbana–Champaign. He is a Distinguished Professor in the Department of Electrical Engineering at National Taiwan University (NTU), and was chairman of that department from 2001–2004. He served as dean of the College of Electrical Engineering and Computer Science (EECS) at NTU from 2012 to 2015. Under his leadership, the EECS programs at NTU have ranked in the top 30 to 40 in several world rankings.

Kuo was the chair and a board member of the IEEE Taipei section for many years, a steering member of the IEEE Technical Committee on Fault Tolerant Computing, a member of the IEEE CS Fellow Committee and Education Awards Committee, an associate/guest editor of IEEE journals, and general/program chairs for IEEE conferences.

His research interests include dependable systems, cloud computing, and quantum computing. He has published more than 420 papers in journals and conferences, and holds 21 US patents and 19 Taiwan patents. Kuo has received best-paper awards at several IEEE conferences and the highest research award from the National Science Council, Taiwan. A member of the CS for 32 years, he has been an IEEE Fellow since 2001.

Avi Mendelson

POSITION STATEMENT. I believe that the IEEE Computer Society (CS) should expand its focus on providing better education at all levels and encouraging innovation.

Education should be focused on expanding current programs for a wider range of ages and experiences and on creating new programs for countries and cultures that currently have only limited access to modern technologies due to limited infrastructure or language barriers.

Innovation is the second main area I believe the CS should strive to focus on. It is especially important for small groups and SMEs since they may be used as an enabler for creating disruptive technologies, which may lead to a significant economy change. The CS should strengthen this trend by promoting the tools, means, and know-how for moving good and innovative ideas into products. This can help the Society but also motivate people that never considered being part of the Society to become active members.

BIOGRAPHY. Avi Mendelson has a blend of industrial and academic experience in several different areas such as computer architecture, operating systems, power management, reliability, and high-performance computing. He received a PhD in computer engineering from the University of Massachusetts at Amherst in 1990.

Among his industrial jobs, he served as the manager of the academic outreach program at Microsoft R&D Israel, where he initiated different innovation-based activities among students. Before that, he worked for 11 years as a senior researcher and principle engineer at Intel. Among his achievements at Intel, he was the chief architect of the CMP (multicore-on-chip) feature of the first dual-core processors Intel developed. For this work, he received the Intel Achievement Award (the highest award at Intel).

Mendelson has published more than 130 papers in refereed journals, conferences, and workshops. He completed a full term as an associate editor of IEEE Computer Architecture Letters (CAL) and now serves as an associate editor of IEEE Transactions on Computers. He served as program chair of different major conferences and as the general chair of the ISCA (International Symposium on Computer Architecture) in 2013.
San Murugesan

POSITION STATEMENT. The Computer Society (CS) needs to undergo a significant transformation to address the challenges it faces and exploit new opportunities that arise from advances in technology, changing membership profiles, and members’ expectations, as well as global trends. Drawing on my vision and experience, I shall lead a transformation that embraces these opportunities while addressing challenges by closely working with CS staff, volunteers, and our stakeholders.

I’ll advocate and champion this transformation and further enrichment by helping the CS:

› provide curated information on specific topics, better disseminate knowledge, and improve digital library offerings;
› extend membership and global reach, increase industry and practitioner participation, and increase revenues;
› enrich member engagement with the CS and other members; and
› implement new programs and initiatives of relevance and value to members around the world.

I look forward to serving as your representative on the Board and exceeding your expectations.

BIOGRAPHY. San Murugesan is the director of BRITE Professional Services and an adjunct professor at Western Sydney University. He is editor in chief of IT Professional, serves on the editorial boards of Computer and IEEE Transactions on Cloud Computing, and edits Computer’s Cloud Cover column. He was an IEEE Computer Society Distinguished Visitor, currently serves the CS in other roles, and connects with CS members in the Asia-Pacific region and elsewhere.

Murugesan is widely recognized for his commitment to service, innovative ideas, and dedication to professional activities. He has vast experience in both academia and industry, and has made significant contributions to the IT field and society. He has over 180 publications, including the Encyclopedia of Cloud Computing (Wiley-IEEE Press, 2016) and Harnessing Green IT (Wiley-IEEE Press, 2012).

He was a Senior Research Fellow at the NASA Ames Research Center, has been a professor at various universities, and has led several projects at the Indian Space Research Organization in Bangalore. He has served on several review and advisory boards and conference committees. Murugesan received a PhD in computer science from the Indian Institute of Science and is a Fellow of the Australian Computer Society, IETE, and IICA. Visit http://bitly.com/sanbio for more.

Dimitrios Serpanos

POSITION STATEMENT. Computing is fundamental in emerging interdisciplinary technological ventures, from financial transactions and smartphones to climate forecasting and intelligent manufacturing. The dependence on computing systems requires ubiquitous adoption of engineering principles for reliability and safety at an international level, as computers control critical infrastructure and influence our safety and well-being.

The IEEE Computer Society, as part of the largest international engineering body, is well positioned lead and shape the future of computing through activities that nurture collaboration with other IEEE societies; lead development and adoption of new technologies, standards, and best practices; and support the growth of new engineers who are increasingly challenged by demanding interdisciplinary requirements.

If elected, I will work toward strengthening activities in areas where other nonengineering bodies are taking the lead, like the Internet of Things, increasing activities with other IEEE societies, fostering open access, and supporting young engineers with interdisciplinary technical and career development programs.

BIOGRAPHY. Dimitrios Serpanos is a professor of electrical and computer engineering at the University of Patras and director of the Industrial Systems Institute in Patras. He received a PhD in computer science from Princeton University. His research focuses on embedded and industrial control systems architecture and security.

He has served as president of the University of Western Greece (2010–2013) and director of the Industrial Systems Institute (2008–2013), which has become a significant research organization in embedded systems in Europe (member, ARTEMIS and ERCIM). He has been principal scientist at Qatar Computing Research Institute (2013–2016), research staff member at IBM (T.J. Watson, 1990–1996), and faculty at the Universities of Crete (1996–2000) and Patras (2000–present).

Serpanos is a founding member of the organizing committee of WESS (Workshop on Embedded Systems Security)/ESWEEK (2006–2015). He has served as general or TPC chair at several IEEE conferences, and as TPC member at more than 100 events. He is associate editor of IEEE TII, ACM TECS, and other journals.

He has been published widely in journals and conferences and holds two US patents. He is an IEEE Senior Member, and a member of ACM, NYAS, and AAAS.
Jiangtao (Gene) Wen

POSITION STATEMENT. If elected, I will energetically contribute to the mission and activities of the Computer Society (CS). I will dedicate time and energy especially to the engagement of young professionals in emerging technical areas and geographical locations, so that they continue to be associated with the CS after they leave school and use the CS as an important professional networking channel, in addition to LinkedIn and social media. The CS should be the gateway to continued education and a portal to the vast repertoire of knowledge, know-how, and resources both within and outside of IEEE. By establishing various well-designed activities and leveraging mentors and volunteers, the contributions these new members will make to the CS will allow us to grow and stay at the forefront of computer science.

BIOGRAPHY. Jiangtao (Gene) Wen received a PhD with honors in electrical engineering from Tsinghua University in Beijing, China. From 1996 to 1998, he conducted research on multimedia coding and communications at UCLA, with many of his inventions adopted by international standards. After UCLA, he played a technical leadership role in PacketVideo Corp. (NASDAQ: WAVE/DCM), Mobilgen Corp. (NASDAQ: MXIM), and Ortiva Wireless (NASDAQ: ALLT), and he consulted for Stretch Inc. and Ocarina Networks (NASDAQ: DELL). Since 2009, Wen has been a professor in the Department of Computer Science and Technology at Tsinghua University. He was a visiting professor at Princeton University in 2010 and 2011.

Wen has been a member of the IEEE CS Education Award Selection Committee, the 2012 CS Fellow Committee, and an associate editor of IEEE TVSCT. He served on the committee of a number of IEEE conferences and society TCs, including the IEEE Data Compression Conference, and was the technical program cochair of the inaugural IEEE ChinaSIP conference. He is a recipient of the 2010 IEEE CAS TCSVT best-paper award. Besides teaching and research, Wen is also an angel investor. He was elected an IEEE Fellow in 2011 for his contributions to multimedia communication technology and standards.