IEEE COMPUTER SOCIETY UNVEILS TOP 10 TECHNOLOGY TRENDS FOR 2015

In December 2014, the IEEE Computer Society announced its 10 top technology trends for 2015. Cybersecurity will remain a critical concern, with increased focus on security for cloud computing and deeply embedded devices. Interoperability and standards will also be top priorities.

“Researchers have been working to address these issues for a number of years. However, 2015 should see real progress in these areas,” said incoming IEEE Computer Society President Thomas M. Conte, an electrical and computer science professor at Georgia Tech. “We’re reaching an inflection point for 3D printing, which will revolutionize manufacturing, and the exponential growth in devices connected to the Internet makes interoperability and standards critical.”

The top trends include wearable devices, the Internet of Anything, building security into software design, “software-defined anything” interoperability and standards, cloud security and privacy, 3D printing, predictive analytics, embedded computing security, augmented-reality applications, and digital health opportunities for smartphones.

For more information about the top 10 technology trends for 2015, please visit www.computer.org/web/pressroom/2015-top-tech-trends.

IEEE APPOINTS NATIONALLY RECOGNIZED SCIENTIST AND SECURITY EXPERT TO CHAIR CYBERSECURITY INITIATIVE

IEEE and the Carnegie Mellon University Software Engineering Institute (SEI) announced in November 2014 that nationally recognized scientist and security expert Greg Shannon has been named chair of the IEEE Cybersecurity Initiative. Shannon is chief scientist for the CERT Division at SEI, where he regularly partners with government, industry, and academia to develop advanced methods and technologies to counter sophisticated cyberthreats.

As IEEE Cybersecurity Initiative chair, Shannon will shape and lead a technical agenda that brings unique solutions to cybersecurity challenges by providing tools and data for computer security education, offering guidance on secure software coding and software assurance engineering, and facilitating adoption throughout the cybersecurity industry.

“With IEEE’s ubiquitous impact on cyber technologies, I’m delighted to chair this initiative and harness IEEE’s experience, technical leadership, and resources to address society’s pervasive cybersecurity and privacy challenges,” Shannon said.


NIIT AND IEEE COMPUTER SOCIETY ENTER GLOBAL ALLIANCE TO ENHANCE EMPLOYABILITY OF ENGINEERS

Leading global talent development corporation NIIT and the IEEE Computer Society entered into a global alliance to provide training to create quality engineers who meet the industry’s requirement for job-ready talent. The training is based on the Guide to the Software Engineering Body of Knowledge (SWEBOK).

According to the recently published National Employability Report—Engineers Annual Report 2014, only 18 percent of engineers are employable as software engineers in IT services, and fewer than 4 percent are trained to be directly deployed on projects. This means there is an acute demand in the industry for a well-trained talent pool certified by a neutral, internationally recognized body.

NIIT and the IEEE Computer Society will provide three courses based on the SWEBOK certification: the SWEBOK Certificate Program, the Certified Software Development Associate credential, and the Certified Software Development Professional credential.

“With an aim to bring engineers at par with the global industry standards, we plan to train over 40,000 engineers in SWEBOK training programs in next three years,” said Amitabh Lahiri, president of NIIT Limited. “This partnership will help deliver quality engineering programs to students across India,” said Harish Mysore, IEEE’s director of India operations. “Employers will value the IEEE and NIIT joint certificates globally,” he added.

For more information, please visit www.computer.org/web/pressroom/NIIT-and-IEEE-Computer-Society-Enter-into-Global-Alliance-to-Enhance-Employability-of-Engineers.

NEW EDITOR IN CHIEF APPOINTED FOR IEEE TRANSACTIONS ON BIG DATA

Qiang Yang, a professor in the Department of Computer Science and Engineering at Hong Kong University of Science and Technology, has been appointed editor in chief of IEEE Transactions on Big Data beginning 1 January 2015. Dr. Yang was founding head of Huawei Noah’s Ark Research Lab from 2012 to 2013, and his research interests include data mining and artificial intelligence.

Yang received a PhD in computer science from the University of Maryland, College Park. He’s a Fellow of the Association for the Advancement of Artificial Intelligence, the American Association for the Advancement of Science, IEEE, and the International Association of Pattern Recognition.
IEEE Transactions on Big Data will soon be accepting manuscript submissions for peer-reviewed articles with big data as the main focus. The articles will provide cross-disciplinary research ideas and applications results for big data including novel theories, algorithms, and applications.

For more information about Yang and IEEE Transactions on Big Data, please visit www.computer.org/web/pressroom/New-Editor-in-Chief-Selected-for-IEEE-Transactions-on-Big-Data.

CHANGES TO IEEE COMPUTER SOCIETY BYLAWS AVAILABLE ONLINE

The IEEE Computer Society Board of Governors recently approved the first reading of amendments to the Computer Society’s bylaws.

Article XI Standing Committees—Section 9: Nominations Committee was revised to clarify the requirements for committee members. The relevant sections with proposed changes are available for review at http://bit.ly/yylOjq. Deletions are marked in strikeout text. Only relevant segments of the bylaws in question are reproduced.

Changes to existing Society bylaws that receive first- and second-reading approval by the Board of Governors are listed by title in Computer, with links to a website location hosting the actual documents. The documents remain accessible at this location until the changes receive final approval.

Members can send comments to Anne Marie Kelly at amkelly@computer.org until close of business on 23 January 2015.

Watts S. Humphrey Software Process Achievement Award

Nomination Deadline: January 15, 2015

Do you know a person or team that deserves recognition for their process improvement activities?

The IEEE Computer Society/Software Engineering Institute Watts S. Humphrey Software Process Achievement Award is presented to recognize outstanding achievements in improving the ability of a target organization to create and evolve software.

The award may be presented to an individual or a group, and the achievements can be the result of any type of process improvement activity.

To nominate an individual or group for a Humphrey SPA Award, please visit http://www.computer.org/web/awards/spa