

To ensure you receive our email, please add IEEEService@ieee.org to your address book now.



IEEE Future Directions Newsletter



ISSUE 10 | November 2017

In This Issue:

- [Featured Article](#)
- [Technology Policy and Ethics](#)
- [Current Activities in our Technical Communities](#)
- [IEEE Future Directions Events](#)
- [Submission/Subscribe Information](#)

Feature Article

IEEE Future Directions Podcast Series Tops 330 Subscribers

The IEEE Future Directions podcast program, which kicked off in 2016, boasts over 32 podcasts and 330 subscribers to date. The podcast program weaves together expert insights from IEEE Big Data, IEEE 5G, IEEE Rebooting Computing, and IEEE Technology Time Machine. The podcasts offer an array of topics, from the boldest vision of what 5G can bring us to the biggest computing trends that will shape the future of industry.

Podcasts are available through iTunes and Google Play, and are easily downloadable on a mobile device. You can also find them on the following web portals: [IEEE Big Data](#), [IEEE 5G](#), [IEEE Technology Time Machine](#), and [IEEE Rebooting Computing](#).

IEEE Future Directions has established a new channel on [IEEE.tv](#) where the podcasts are available. Future plans include developing podcasts for other initiatives and partnering with corporate sponsors. Stay tuned!

Technology Policy and Ethics

IEEE Future Directions considers the reflection of technology through the lens of social implications a key tenet of our work as we incubate and promote technologies. We are seeking submissions of original content, short articles of 800-1200 words on the social implications of technology, including but not limited to policy and ethics topics. If interested please email, FDPolicyEthics@ieee.org.

Ethics, Policymakers, and Technology Development

Recent events illustrate the societal implications of ethical lapses

By Greg Adamson

Technology's impact on society has likely been fodder for thought since humans

IEEE Future Directions Communities



began making stone tools. But in the 21st century, technology development is taking place at greater speeds and with greater potential impacts on society than ever before. At this point, we have enough experience and historical precedent to enable us to not only consider technology's potential impacts, but to shape those impacts via public policy. In fact, specific technologies - artificial intelligence (AI) comes to mind - are being developed faster than we can understand their implications and shape their future. Not even the technologists involved know where AI is heading or can forecast its societal implications.

[Read more.](#)

The Slow Tech Journey: An Approach to Teaching Corporate Social Responsibility - Part 1

by Rebecca Lee Hammons, Norberto Patrignani, and Diane Whitehouse

At the core of the Information and Communication Technologies (ICT) stakeholders network are information and communication technology companies. While their products and services are shaping the future of society, debate about their social responsibility is largely absent. Ideally, from a normative position, these companies must be transparent about their social, environmental, and ethical impacts on society, and, in general, computer and technology professionals must assess the added-value embedded in the systems they design.

[Read more.](#)

Current Activities in our Technical Communities

IEEE 5G:

The 2018 IEEE 1st 5G World Forum (5GWF'18) July 9-11 2018 in Santa Clara, California, USA seeks contributions on how to nurture and cultivate 5G technologies and applications for the benefit of society. [Click here](#) for the online Call for Papers.

[Visit the portal.](#)

IEEE Cloud Computing:

IEEE Cloud Computing is sponsoring The 9th IEEE International Conference on Cloud Computing Technology and Science (CloudCom 2017), to be held in Hong Kong 11-14 December 2017. CloudCom is the premier conference on Cloud Computing worldwide, attracting researchers, developers, users, students and practitioners from the fields of big data, systems architecture, services research, virtualization, security and privacy, high performance computing, always with an emphasis on how to build cloud computing platforms with real impact. [Read more.](#)

[Visit the portal.](#)

IEEE Cybersecurity:

The IEEE Cybersecurity Initiative has released its seventh report, titled "Building Code for the Internet of Things." The many characteristics that make the IoT different from traditional networked computing also require us to pay particular attention to how to make such systems safe and secure. This Building Code document focuses on the challenges associated with composing systems, rather than building individual



programs or devices. We use the concept of smart cities to illustrate how design for safety, security, and privacy must consider emergent properties, and how a system or technology designed for this domain must account for how it might be integrated, reused, or composed with other technologies and systems. [Read the report.](#)

[Visit the portal.](#)

IEEE Digital Senses:

[Sign up](#) for the latest information on Digital Senses.

[Visit the portal.](#)

IEEE Life Sciences:

The IEEE Life Sciences Conference will focus on multi-society perspectives on personalized healthcare and wearables. It will take place in Sydney, Australia 13-15 December 2017. [Learn more.](#)

[Visit the portal](#)

IEEE Smart Grid:

Check out our upcoming IEEE Smart Grid Tutorial: [Grid 4.0: Cyber-Physical Systems Enable a Modern Grid](#)

Presented by: Steven E Collier, Director of Smart Grid Strategies, Milsoft Utility Solutions

[Visit the portal.](#)

IEEE Transportation Electrification:

The [September 2017 issue](#) of the IEEE Transportation Electrification Newsletter is now available. Articles include:

- EV Integration and the SYNDEM Smart Grid Architecture
- The McMaster Engineering EcoCAR 3 Team Drives the Automotive Industry Forward
- ITEC Asia-Pacific Gaining Momentum

[Visit the portal.](#)

IEEE Internet of Things:

The IEEE IoT Activities Board is seeking proposals for site selection of the Fifth and Sixth IEEE WF-IoT Conferences in 2019 (Europe) and 2020 (The Americas). To send inquiries and proposals, please use the [contact form](#) on our website.

[Visit the portal.](#)

IEEE Software Defined Networks:

The [4th IEEE Conference on Network Softwarization \(Netsoft\)](#) will be held 25-29 June 2018 at Concordia University in Montreal, QC, Canada. The conference theme is "Achieving Smart Network Softwarization." Authors are invited to submit papers that fall into the area of software-defined and virtualized infrastructures. Visit the website for the extended list of topics considered. Submission deadline is 1 December 2017. If you are interested in organizing a workshop co-located with NetSoft 2018, please submit a workshop proposal by 15 December 2017.

[Visit the portal.](#)

IEEE Smart Cities:

[Sign up](#) for this IEEE Community to receive the latest information on Smart Cities.

[Visit the portal.](#)

IEEE Symbiotic Autonomous Systems Initiative:

The Symbiotic Autonomous Systems White Paper aims to define symbiotic autonomous systems and address their technical fundamentals, evolution, and potential implications. Read the [white paper](#).

[Visit the portal.](#)

IEEE Big Data:

The IEEE Workshop on Big Data Metadata and Management and Hackathon will take place in Boston MA, USA 11-14 December 2017, as part of [IEEE BigData 2017](#).

Workshop: The IEEE Workshop on Big Data Metadata and Management, sponsored by IEEE Big Data, will take place on 12 December. [See details](#).

Hackathon: The hackathon, sponsored by IEEE Big Data, will be held on 11 December. Participants will analyze provided healthcare payment datasets and develop models for detecting and preventing healthcare fraud. They will be judged by an evaluation panel, and winners will receive monetary prizes. Awards will be presented on 12 December. [Sign up here](#).

[Visit the portal.](#)

IEEE Rebooting Computing:

IEEE continues to provide the forum where tech giants announce their latest discoveries as IBM unveils its 50-qubit Quantum Computer at the Rebooting Computing Week's IEEE Industry Summit on the Future of Computing. [Watch the video](#).

[Visit the portal.](#)

IEEE Green ICT:

The IEEE Green ICT Initiative would like to congratulate the winners of the IEEE Young Professional Green ICT Idea Competition: Hasan Farooq and Ali Imran (USA), and Alis Daniela Torres (Spain.) More information on the winning entries can be found on [our website](#).

[Visit the portal.](#)

IEEE Brain:

More than 140 industry, government, and academia members attended the [2017 IEEE Brain Initiative Workshop](#) on Advanced Neurotechnologies on 9-10 November in Washington D.C. USA Keynotes were given by Facebook and Medtronic, with invited speakers discussing advances in brain research, neuroethics, and commercialization.

[Visit the portal.](#)

IEEE Future Directions Events

[Algorithmic Decision Making Webinar](#), 7 December 2017, 11 a.m. Eastern

[IEEE Brain Data Bank Competition](#), 9 December 2017, Boston, MA, USA

[IEEE Life Sciences Conference](#), 13-15 December 2017, Sydney, Australia

[2018 4th IEEE Conference on Network Softwarization and Workshops \(NetSoft\)](#), 25-29 June 2018, Montreal, QC, Canada

[2018 IEEE 5G World Forum \(5GWF'18\)](#), 9-11 July 2018, CA, USA

[2018 IEEE Cybersecurity Development \(SecDev\)](#), 30 September - 2 October 2018, Cambridge, MA, USA

Submission/Subscribe Information

Subscribe to this Newsletter

Members of any IEEE Future Directions technical community receive this newsletter automatically. If you did not receive a copy of this newsletter directly, you can subscribe by [joining a technical community](#).

Contribute Content

If you would like to submit items to be considered for inclusion in this newsletter, please send an email to ieeefd-digital@ieee.org.

[Response: Read Receipt]

[Contact & Support](#) | [Privacy & Opting Out of Cookies](#) | [Terms & Conditions](#) | [Nondiscrimination Policy](#)

A non-profit organization, IEEE is the world's largest professional association for the advancement of technology.

©Copyright 2017 IEEE - All rights reserved. Use of this newsletter site signifies your agreement to the terms and conditions.

If you would like to be removed from this email distribution, please [Response: Unsubscribe from List]. If you have unsubscribed in error, please [Response: Subscribe to List].

To unsubscribe from all mailings, use your IEEE Account to update your "Personal Profile and Communication Preferences."

Replies to this message will not reach IEEE. Due to local email service/provider settings, random characters may appear in some instances.

Although the IEEE is pleased to offer the privilege of membership to individuals and groups in the OFAC embargoed countries, the IEEE cannot offer certain services to members from such countries.

IEEE

445 Hoes Lane
Piscataway, NJ 08854 USA
+1 800 678 4333 (toll free, US & Canada)
+1 732 981 0060 (Worldwide)

For more information or questions regarding your IEEE membership or IEEE Account, please direct your inquiries to the [IEEE Contact Center](#).