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# IEEE Future Directions Newsletter



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## Welcome

Welcome to our latest IEEE Future Directions community newsletter.

You may already be a member of one or more IEEE Technical Communities. This newsletter highlights activities across all IEEE Technical Communities and initiatives, so you always know what's going on.

Visit each featured portal for access to upcoming conferences, news articles, technical papers, related standards, professional organizations, and academic programs.

We invite you to join any of these communities at no cost. To learn more, contact [Future Directions](#), or visit our [website](#).

## Early Registration Discounts Available for the 2016 IEEE Technology Time Machine (TTM)

[Registration is now open](#) for [IEEE Technology Time Machine](#), IEEE's flagship symposium on future technology directions, 20-21 October 2016 in San Diego, CA, USA. The overall theme of TTM 2016 is "Making the Future." Building upon IEEE's major technology initiatives, TTM 2016 will bring together high level renowned experts from research and industry to provide an overview of future technologies based on their research, products, and services. Keynote speakers and panelists will provide the participants with knowledge of the technologies so they can plan for the future while recognizing possible immediate applications for today.

[Early Bird Registration available now. Save up to US\\$250!](#)

[In a recent Q&A](#), IEEE Life Fellow Doug Zuckerman provides insights into the [IEEE Technology Time Machine](#) conference's purpose, program and value propositions.

## IEEE Future Directions Communities



## Call for Articles and Editors: Policy and Ethics in Technology

Future Directions considers the reflection of technology through the lens of social implications a key tenant of our work as we incubate and promote technologies. To that end this newsletter will be forming a new content area entitled "Policy and Ethics in Technology." Future Directions is 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. In addition, the newsletter is actively looking for editors to support this new content area of the newsletter. If interested please send an email to [FDPolicyEthics@ieee.org](mailto:FDPolicyEthics@ieee.org).

## Current Activities in our Technical Communities

### IEEE Big Data:

Check out the IEEE Big Data [Data Analytics Competition](#), which will be held during the International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC 2016), 13-14 October 2016 in Chengdu, China. Visit the IEEE Big Data [web portal](#).

### IEEE Brain:

The [IEEE Workshop on Advanced NeuroTechnologies for Brain Initiatives](#), sponsored by the IEEE Brain Initiative, will be held 10-11 November 2016, at the Sheraton San Diego Hotel and Marina, CA, USA. The workshop will highlight the development of novel electronic and photonic devices and techniques for experimental probing, neural simulation studies, and the design and development of human-machine interface systems, and more. Visit the IEEE Brain [web portal](#).

### IEEE Cloud Computing:

Read IEEE Cloud Computing Chair Chris Miyachi's latest article in *Electronic Component News* (ECN): [Meeting Cloud Challenges May Pave Way for IoT](#). Visit the IEEE Cloud Computing [web portal](#).

### IEEE Cybersecurity:

Registration is now open for [IEEE Cybersecurity Development 2016](#) (SecDev), 3-4 November 2016, Boston, MA, USA. SecDev is a new venue for presenting ideas, research, and experience about how to develop secure systems. Visit the IEEE Cybersecurity [web portal](#).

### IEEE Digital Senses:

[Sign up](#) for this new IEEE Community to receive the latest information on Digital Senses. Visit the IEEE Digital Senses [web portal](#).

### IEEE Green ICT:

[Become a part](#) of the growing Green ICT initiative, which aims to build a holistic approach to sustainability through ICT by incorporating green metrics throughout IEEE technical domains. Visit the IEEE Green ICT [web portal](#).



### **IEEE Internet of Things (IoT):**

IEEE is partnering with IoT Planet for an [IoT Startup Event](#) during their International Forum 25-27 October 2016 in Grenoble, France. Startups will have the opportunity to pitch a panel of investors and industry leaders on their ideas, concepts, and biggest challenges they may face in going to market.

Visit the IEEE Internet of Things [web portal](#).

### **IEEE Life Sciences:**

Read the latest issue of the [IEEE Life Sciences Newsletter](#). Includes these articles, "Synthetic Biology: Advancing New Applications" and "Nature Holds the Key to New Technology."

Visit the IEEE Life Sciences [web portal](#).

### **IEEE Rebooting Computing:**

The preliminary program for the first international IEEE conference on Rebooting Computing (ICRC 2016) is [now available](#). The goal of ICRC 2016 is to discover and foster novel methodologies to reinvent computing technology, including new materials and physics, devices and circuits, system and network architectures, and algorithms and software.

Visit the IEEE Rebooting Computing [web portal](#).

### **IEEE Smart Cities:**

Check out the latest Smart Cities Massive Open Online Course (MOOC) on [Health in Smart Cities](#). Learn the fundamental concepts of a smart, healthy city and how smart cities deliver innovative, quality healthcare services.

Visit the IEEE Smart Cities [web portal](#).

### **IEEE Smart Grid:**

IEEE Smart Grid presents its first ever 2016 [IEEE International Forum on Smart Grids for Smart Cities](#) (SG4SC) 16-18 October 2016 in Paris, France.

Visit the IEEE Smart Grid [web portal](#).

### **IEEE Software Defined Networks (SDN):**

Their white paper is now available for download on the IEEE SDN web portal: ["Towards 5G Software-Defined Ecosystems."](#) This white paper, written by several leaders of the IEEE SDN Steering Committee, focuses on the SDN-NFV-5G technical challenges, business sustainability and policy issues and is a free resource to the IEEE SDN Technical Community.

Visit the IEEE Software Defined Networks [web portal](#).

### **IEEE Transportation Electrification:**

Register for the IEEE Transportation Electrification Community's upcoming webinar: [An Introduction to Railway Power Systems](#), presented by Eduardo Pilo de la Fuente.

Visit the IEEE Transportation Electrification [web portal](#).

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## **Technology Policy & Ethics**

### **Bringing Ethics to the Forefront of Technology R&D**

An argument in favor of making it a prominent part of each new product's life cycle  
By Joe Herkert

In the fast-paced world of research and development, along with the commercialization of emerging technologies, ethical considerations are often made after the product is already on the market. That is too late, and often ethics aren't even discussed until something goes wrong.

Instead of "ethics as usual," I suggest what is known as anticipatory ethics, which requires the matter to be considered from the beginning of a technology's R&D cycle.

Read more on [our website](#).

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## IEEE Future Directions Upcoming Events

### [IEEE Systems, Man, and Cybernetics Society 2016 6th Workshop on Brain-Machine Interfaces](#)

9-12 October 2016, Budapest, Hungary

### [IEEE International Conference on Rebooting Computing \(ICRC 2016\)](#)

17-19 October 2016, San Diego, CA, USA

### [IEEE Technology Time Machine 2016 \(TTM\)](#)

20-21 October 2016, San Diego, CA, USA

### [IEEE Cybersecurity Development Conference \(SecDev\)](#)

3-4 November 2016, Boston, MA, USA

### [IEEE 3rd World Forum on Internet of Things \(WF-IoT\)](#)

12-14 December 2016, Reston, VA, USA

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