

IEEE Region 2



INSIDE THIS ISSUE

- *Engineering Week Activities*
- *IEEE-USA Congressional Visit Day*
- *Hot Topics of the Month IEEE-USA, IEEE, and Region 2*



Artificial Intelligence Edition

Engineers Week 2021

As we approach Engineers Week 2021 many members are remembering prior years when they mentored, guided, and inspired young and old alike during onsite Family Days and the plethora of HANDS-ON activities held across the globe.

This year the world has responded as to how to best engage, inspire, and bring STEM to life for a new set of enthusiasts across the GLOBE in areas as diverse as

climate change, pandemics, cyber-security and other highly innovative fields of study.

Discover Engineer 2021 will be hosting events that enable leaders to be a virtual role model, celebrate engineers and their contributions, as well as drive conversations with change makers. There is still time to **sign up** and be a ROLE MODEL globally!

JOIN THE IEEE TEAM @ CVD



IEEE-USA will be hosting its annual **Congressional Visits Day** starting on March 29th. As always, the CVD will give you a chance to discuss issues of importance to IEEE members with your elected leaders. This year's event will be *virtual*, but will still be the most powerful and direct way for us to influence the new Congress. **All IEEE members** in the United States are encouraged to join us for the **2021 CVD**, especially those of you with new legislators for 2021. You can register to participate [here](#). For details on this year's event, review material [here](#). If you have questions about the IEEE-USA CVD, contact *Russ Harrison* at r.t.harrison@ieee.org.

Advocacy Topics

ARTIFICIAL INTELLIGENCE: How can policy-makers help advance this emerging technology and ethically integrate AI systems into society?

HIGH-SKILL IMMIGRATION: We fight to protect American and non-American workers in the United States to ensure a strong, prosperous high-tech workforce.

RESEARCH: We promote basic and applied research at agencies including NASA, NIST and the NSF by fighting to protect their budgets and allow researchers to use research dollars more efficiently.

INTELLECTUAL PROPERTY: As the leading voice for small and independent inventors, we fight for a patent system that is accessible to all innovative people.

Opportunities for Members



IEEE-USA PUBLIC POLICY COMMITTEES

Committees develop and promote IEEE-USA's [legislative agenda](#), as well as [policy position statements](#), [white papers](#), [amicus curiae](#) briefs, and other [policy communications](#).



IEEE-USA GOVERNMENT FELLOWSHIPS

Each year, IEEE-USA sponsors qualified U.S. IEEE members to spend a year living and working in Washington as advisers to the U.S. Congress, the U.S. State Department or USAID.



WISE INTERNSHIPS

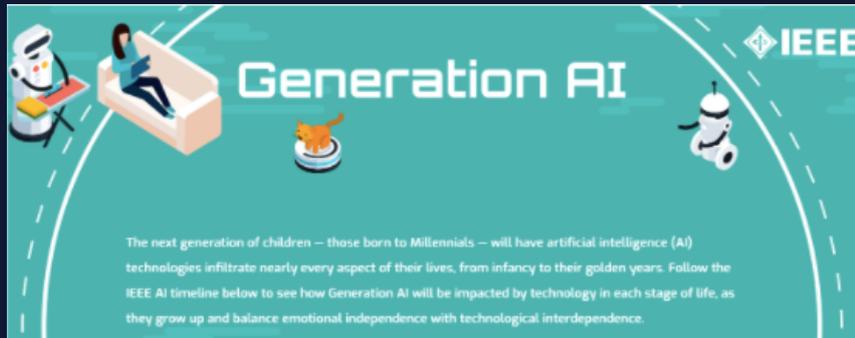
Student members can spend a summer in Washington, D.C., learning how IEEE members can be involved in the policy process.



SET CONGRESSIONAL VISITS DAY (CVD)

Annual two-day event culminating with face-to-face visits with legislators on Capitol Hill.

HOT TOPIC OF THE MONTH ARTIFICIAL INTELLIGENCE



Following *Artificial Intelligence Resources* AVAILABLE TO OUR MEMBERS



Generation AI 2020: Health, Wellness and Technology in a Post COVID World

Generation AI 2020: Health, Wellness and Technology in a Post-COVID World is a global IEEE study that reveals the confidence Millennial parents with Generation Alpha children (under 11-years-old) in the U.S., U.K., India, China and Brazil may have in AI and emerging technologies for the health and wellness of their families.

Ming Liu, IEEE Senior Member, IEEE Robotics and Automation Society. **IEEE Impact Creators** inspire a global community to innovate for a better tomorrow. IEEE Impact Creators from around the globe share insights on engineering, computing and technology.

The Importance of Autonomous Systems in 2021

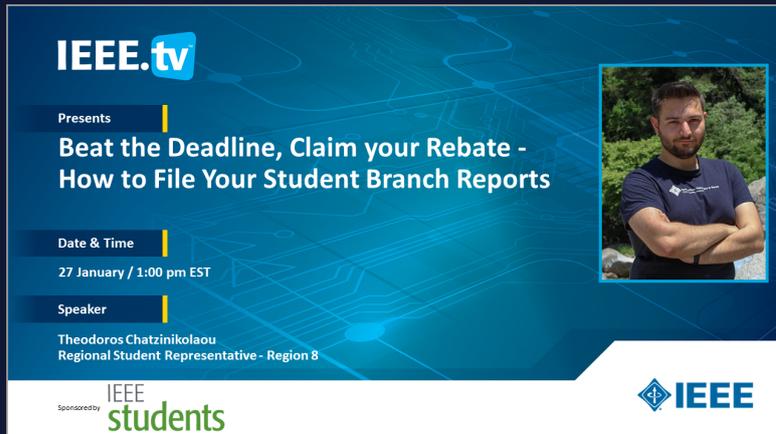
DECEMBER 8, 2020 | UPDATED: DECEMBER 15, 2020

Ming Liu, IEEE Senior Member, IEEE Robotics and Automation Society shares why autonomous systems will be important in 2021.



Newsletter Editor: Dr. Rhonda Farrell, ieeer2rvc@gmail.com, www.ieee.org/r2

SUPPORT YOUR IEEE STUDENTS!



IEEE.tv

Presents

Beat the Deadline, Claim your Rebate - How to File Your Student Branch Reports

Date & Time

27 January / 1:00 pm EST

Speaker

Theodoros Chatzinikolaou
Regional Student Representative - Region 8

Sponsored by **IEEE students**

IEEE

Register to attend the upcoming **IEEE Students webinar** that will help you ensure that your OU is compliant and you can claim your rebate!

Student branches are crucial to the growth and development of IEEE Student members. Student branches create a local network of students and give students the opportunity to meet and learn from fellow students, as well as faculty members and professionals in the field.

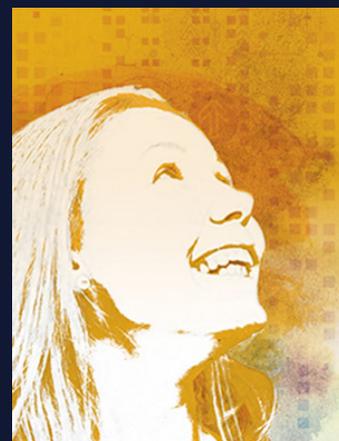
Student branches offer numerous educational, technical, and professional advantages to IEEE Student members through special projects, activities, meetings, tours, and field trips.

However, these activities and advantages aren't done without the effort, labor, and diligence of volunteers. IEEE has created several **Student Branch Awards** to recognize and reward the efforts of these tireless individuals and teams.

All award nominations should be submitted via the **Student Awards Portal** between **01 FEB 2021** and **31 MAR 2021**

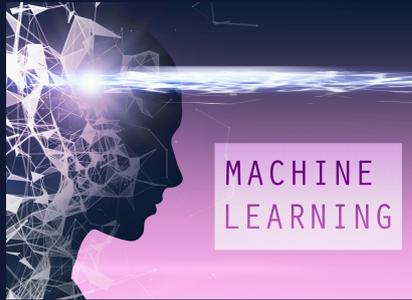
The **IEEE Student Activities Committee** started a new initiative in 2020 by establishing a **Virtual Speakers Bureau**. This will use IEEE's network to provide more opportunities for students and Branches. This group of volunteer speakers will reach students, where they are and in real time using online tools and resources. Student branches and virtual speakers will be paired by the VSB committee. Together you will decide on a date, time and virtual platform. Students benefit from the speakers knowledge and experience. Speakers share with future leaders.

Support the VSB by requesting a speaker, or volunteering to be a speaker via our **Virtual Speaker Bureau Site**.



Newsletter Editor: Dr. Rhonda Farrell, ieeer2rvc@gmail.com, www.ieee.org/r2

IEEE Special Events and Series



IEEE WASHINGTON TECH TALK SERIES: MACHINE LEARNING FOR WIRELESS COMMUNICATIONS AND SECURITY IN 5G AND BEYOND

IEEE Washington D.C. Section is pleased to host the first event of the **virtual Tech Talk Series** by Yalin Sagduyu, Ph.D. from Intelligent Automation, Inc. on Thursday, February 25, 2021 noon-1:15pm. This talk will showcase his group's research directions for the emerging applications of deep learning in wireless communications. **Register** via vTools [here](#).

IEEE Washington Tech Talk Series is a technical community event designed to bring engineers and technical professionals from the industry in the Greater Washington, D.C. Metro area. Our monthly virtual presentations are a great opportunity to 'ask the experts' the questions that you have always wanted to ask about their given field of expertise. Subjects will vary from session to session and will attempt to be at the leading edge showcasing latest projects and products and intended to provide a platform to discuss emerging techniques and procedures. They are open to the public and free of charge.

BLACK HISTORY MONTH STEM INNOVATORS WITH DR. CHARLES DAVIS

This IEEE Special Event is being held in collaboration with NSBE Process Improvement in a series of webinars during Black History Month 2021.

Each webinar during this series will take a deep dive into the historical understanding on African-American and other ethnic STEM innovators.

During each series, we will discuss some key innovators' contributions to STEM and their challenges to bring their work to life. Elementary students to professionals are encouraged and welcomed to attend these series.

Register for this event via vTools [here!](#)



Newsletter Editor: Dr. Rhonda Farrell, ieeer2rvc@gmail.com, www.ieee.org/r2

Central Area

The Central Area covers the following IEEE R2 Sections:

- Central Pennsylvania
- Erie
- Johnstown
- Pittsburgh
- West Virginia
- Susquehanna



Chair: James A. Beck

East Area

The East Area covers the following IEEE R2 Sections

- Philadelphia
- Southern New Jersey
- Lehigh Valley
- Delaware Bay



Chair : Joseph Burns



Artificial Intelligence and Ethics in Design Course Program
Explore this thought-provoking topic

[Learn More](#)

Locate all the **IEEE R2 vTools Events** [here!](#)

South Area

The South Area covers the following IEEE R2 Sections

- Baltimore
- Northern Virginia
- Washington D.C.

Chair: Don Herres



West Area

The West Area covers the following IEEE R2 Sections

- Akron
- Cincinnati
- Cleveland
- Columbus
- Dayton
- Lima
- Youngstown

Chair: Chang Liu



Newsletter Editor: Dr. Rhonda Farrell, ieeer2vc@gmail.com, www.ieee.org/r2

IEEE R2 Area News of Note



Central Area

Central Area Chairs plan on how to drive higher involvement via remote meetings during the continued pandemic and encourage activities that span multiple sections to offer additional member engagement opportunities.

Additionally, they recently hosted a Talk by Mr. Tom Timcho, which discusses the **Role and the Reality of Technology Supporting the Ladders of Opportunity** - An Engineer's Perspective of Smart Columbus.



South Area

A Leadership & Section Development Workshop was held on-line February 6.

All leaders and members from the South Area as well as the R2 Officers and Committee Leaders were invited.

Topics included Volunteering for IEEE, Section Organizations, Social Media & IEEE Tools, Leadership Opportunities, Chapters & Affinity Groups, Financial Planning, and a Leadership Round Table with Regional Director and the President & President-Elect of IEEE-USA.

Membership was continued in the **Pittsburgh Technology Council (PTC)** for 2021 for the Pittsburgh IEEE ExComm. The PTC has over **one thousand regional corporate members**, ranging from large companies to start-ups. It is a well established regional tech networking organization spanning several decades.

A **new feature** that evolved for the PTC as an 'invention' of the pandemic is a daily lunchtime zoom interactive session that **features a spokesperson from a select member organization**. The PTC also hosts many events (mostly virtual for now) that feature in-depth member organization presentations as well as focus discussions. The PTC also offers employment services for their members. **Pittsburgh Section Excom** volunteers, due to their generous donation of their time to IEEE, are now selectively afforded membership in the PTC where they can attend discounted PTC events at their own expense.

West Area

Columbus Section has been most active in the Industry area, including attending an **Annual Industry Night** event hosted by the Toledo section.

Newsletter Editor: Dr. Rhonda Farrell, ieeer2rvc@gmail.com, www.ieee.org/r2

JOIN AN AFFINITY GROUP

JOIN A COMMUNITY



Collaborate, Engage, and Follow Us in 2021!



SUPPORT OUR STUDENTS & ENTREPRENEURS

ATTEND AN R2 EVENT



Newsletter Editor: Dr. Rhonda Farrell, ieeer2rvc@gmail.com, www.ieee.org/r2