



IEEE

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# region 8 news

r8news.ieeeer8.org

Published quarterly and distributed to more than 70,000 IEEE members across Region 8



## Interviews with the IEEE Region 8 Director and Director-Elect

Antonio Luque, Region 8 Director

### Why is Region 8 News important to the Region?

A.L. R8News is the flagship publication and it gets delivered to members right in their postal inbox together with Spectrum. Many members still appreciate that they do not have to go and search for news but they are brought to them.

What would you like to see us covering from Region 8 in the future?



Antonio Luque, Region 8 Director



Vincenzo Puri, IEEE Region 8 Director-Elect

A.L. The strength of IEEE lies in its volunteers. Topics that make members in general understand the power of volunteering, the benefits that they would get, and the ways that they can start volunteering for IEEE, would

be interesting for everyone.

### What are your plans for the future of our region?

A.L. We are in a critical moment because of the pandemic and the shift in ways that people are living and working. Members demand new services and we at R8 are starting new initiatives that will allow us to reach many types of members and potential members, like those working in industry, practitioners, freelancers, etc. Given the diversity in our

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## Message from the Chair of Region 8 Publications & Communications Team



IEEE Region 8 Communication Channels

Dearest r8 Members, Hope you and your families are doing well and keeping safe.

As the Chair of the

Region8 "Publications & Communications" SubCommittee (R8 PnC) and through this short note to I intend introduce ourselves and familiarize you with our committee and its various components - through which we can assist you, in not only promoting your IEEE message but also in sharing your activities/stories/achievements, with all our regional & global members.

Basically, the PnC is primarily responsible for communicating content and information for the benefit of our R8 members (and beyond) and consists of 5 different communication channels. Each channel has its own dedicated EIC (Editor-

in-Chief) and associated team members. While each of the 5 channels disseminate information in its own distinctive manner, they all converge and synchronize to the same higher platform. The first 3 mentioned below, belong to our "online" portfolio while the last 2 are hard publications.

1. **Region 8 Website/Electronic Communications (R8EC)**: The region's website is a main repository of information about the region & it is suitable for posting information and resources available in the region. The EIC for this channel is **George Michael**.

[Visit](#) the main Region 8 Website

2. **Region 8 Social Media (R8SM)**: In our region, we continuously strive to stay connected with our followers online using various social media platforms (Facebook, Twitter, LinkedIn etc). This is to ensure better engagement with our members and to provide quick real-time information and messages. The EIC for this channel is **Mohammad Hossein Babae**.

[Visit](#) R8SM information on our website and following links to visit our respective SM platforms: [Facebook](#), [LinkedIn](#), [Twitter](#), [Instagram](#).

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## Message from the Editors



Catio Bandeiros, Region 8 News Editor in Chief

### Reloading Region 8 News

My volunteering experience with IEEE started in a quite unusual way. As an Engineer with a budding interest in writing and communication, while I was a visiting Bioengineering PhD student in the United States, I looked for plenty of opportunities to practice Science, Technology, Engineering and Mathematics (STEM) outreach. It was a fortunate experience that my paths

crossed with one of the IEEE Potentials editors and I applied to be an editor as well. I knew of the academic and industry activities conducted by IEEE worldwide and I had even attended one of the IEEE EMBS conferences in Portugal, fresh out of my Biomedical Engineering degree, and was fascinated by the focus on students and young professionals. However, being a communications volunteer has been a whole new level of exposure to the global organization.

From my experience as an editor for IEEE Potentials and promoting content for the Students and Young Professionals audience, then volunteering opportunities in Portugal Section and Region 8 came, all in communications. 4 years after my first encounter with IEEE as a volunteer, I now took on the greatest role of my IEEE volunteering activities as the Editor in Chief of Region 8 News. For someone who dreamed of being a journalist as a young girl, along with a dream of being a scientist in the Biomedical field that became my career path, I can now merge the best of both worlds and it is an honor to serve the Region.

I am aware that this is no small feat. Region 8 News has been dormant for a little over two years now and the editorial board is entirely new, building from the Publications and Communications subcommittee. Also, we are connected to all the other channels (the Region 8 website, Region 8 Today, Social Media, and the upcoming magazine Sigma). We are aware of how much the members of Region 8 miss Region 8 News and how this newsletter can create a sense of unity in such a large region. Additionally, with the constraints we have all faced since 2020 with the COVID-19 pandemic, we hope that the reloading of Region 8 News is an example of the resilience of the members of the Region. We want to showcase the key activities that members have conducted, provide announcements for upcoming events and key global IEEE milestones.

Furthermore, it is impossible to make good content without the collaboration of the members. Please send your announcements to [editors@ieeer8.org](mailto:editors@ieeer8.org) so that all five Editors in Chief of the Publications and Communications subcommittee are on the loop and also send your feedback so that the first edition after this pilot will be suitable to your needs. Hopefully, we want to create a renewed sense of belonging to the region and showcase the diversity of IEEE.

Let's be together in advancing technology for the benefit of humanity in Region 8 and in communicating our achievements in 2021.



With the digital revolution accelerated by the COVID-19 pandemic, video content has turned out to be the most popular medium for sharing information.

IEEE.tv being IEEE's official video platform has gathered momentum too. IEEE.tv is an award-winning, Internet-based television network, producing delivering special-interest programming about technology and engineering for the benefit of IEEE's members and the general public. We are looking for ambassadors to make sure the benefit of IEEE.tv reaches IEEE members across all regions. Do you think you have a passion for video? Join us. We are on the lookout for \*Ambassadors\* in all 10 Regions (Regional/Council/Section/StudentBranch/AffinityGroup level) to build communication channels between volunteers who can assist IEEE.tv committee members.

Head over to <https://volunteer.ieee.org/> and search for 'IEEE.tv Global Ambassador' and check out the opportunity.

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# Interviews with the IEEE Region 8 Director and Director-Elect

Region it is very important that everybody feels welcome in IEEE and can find the right tools for their career.

*Vincenzo Piuri, IEEE Region 8 Director-Elect*

## Why is Region 8 News important to the Region?

V.P. I believe that IEEE Region 8 News is essential to keep our scientific and professional community updated on the major activities which are happening in our Region, to timely recognize the efforts and achievements of our volunteers, and to share the strategic directions of activities of our Region and our Sections, SubSections, Chapters, Student Branches, Student Branch Chapters, and Affinity Groups. It is a fundamental forum to give a comprehensive view of what we are doing in the various units of our Region, a stimulus for attracting volunteers and show them the value of what there are doing for the community, an opportunity for engaging with the entire scientific and professional community in our geographical area.

Due to the publication schedule, Region 8 News can publish only information valid and useful in the medium-long term, while the very short term information need to use other communication channels with a shorter time from submission to dissemination (like social networks, email, web). This is why it is important to integrate the various communication media in a holistic and synergic perspective.

## What would you like to see us covering from Region 8 in the future?

V.P. Strategic plans for our region, best practices, more recognition of the volunteers' efforts.

## What are your plans for the future of our region?

V.P. To identify flexible and sustainable membership models, with fees proportional to the average income in our field in each Country, personalized membership benefits, and more focus on the young generations. To continue to be the trusted source for high-quality knowledge, by nurturing technical activities and conferences, focusing on emerging technologies, providing practical knowledge for professionals, and expanding continuing education. To support underserved groups and geographical areas, by facilitating the access to knowledge and education, promoting soft skills and mentoring services, supporting entrepreneurship, expanding services for professionals and industry, and cooperating with Societies/Technical Councils and national associations.

Region it is very important that everybody feels welcome in IEEE and can find the right tools for their career.

*Vincenzo Piuri, IEEE Region 8 Director-Elect*

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## Short Region 8 Highlights

- A workshop with industry leaders was held on "Motivations and Reservations: The Barriers and Benefits of Adopting Trustworthy AI," including representatives from Siemens, Bosch, Telefonica, Otto, and Atos. This was the first of a series of three workshops being supported by IEEE SA and appliedAI, which is part of the largest innovation centers in Europe, focusing on the application of AI technology.
- The IEEE European Public Policy Committee (EPPC) adopted two Position Statements
  - "Renewable Energy Systems in the European Union: strengthening European leadership in achieving climate and energy goals" that will also serve as a basis to set up bilateral meetings with European Union (EU) policymakers on the topic of renewable energy sources.
  - "Cybersecurity for a stronger and more resilient digital Europe," that will also serve as a basis to explore opportunities for collaboration with both EU institutions and the wider policy stakeholder community on the topic of cybersecurity and associated matters.
- The EPPC and IEEE SA submitted a joint response to the European Commission's public consultation on the review of the NIS Directive, the first piece of EU-wide legislation on cybersecurity.

# Message from the Chair R8 PnC ...

3. **Region8 Today (R8T)**: This is the online News Portal of Region 8 with the main aim to quickly share current news and the great work being done by our members. In addition to that, it also aims to provide a networking opportunity for newcomers and social media links for better understanding IEEE. The EIC for this channel is **Hazar Oklah**.

[Visit](#) R8T information on our website and the [main R8T webpage](#).

4. **Region 8 News (R8N)**: This is our main newsletter, published quarterly to keep IEEE members within the Region, updated on programs, initiatives, events and activities. The EIC for this channel is **Cátia Bandeiras**.

[Visit](#) R8T information on our website.

5. **Region 8 Sigma Magazine (R8Sig)**: This magazine is recently being introduced mainly as a medium to highlight and showcase people, their achievements, projects, technology, etc. which are emanating from our Region 8. The EIC for this channel is **Christopher James**

[Visit](#) Sigma information on our website.

We are always seeking information and content and would love to hear from you. Hence, in order to facilitate our correspondence, we have created two separate mechanisms through which you can reach us:

- Through [editors@ieeer8.org](mailto:editors@ieeer8.org) email address: This is the dedicated email address and your request will go to all the 5 EIC's, who will in turn review and action it and place the content in the relevant place, if deemed appropriate.
- Through [this online form](#) (also available at <https://ieeer8.org/pnc/>), that we have created for your convenience. Again, the request will go to all the 5 EIC's, who will in turn review and action it and place the content in the relevant place, if deemed appropriate.

Furthermore, our teams from specific channels (**R8T**, **R8N**, **R8SM**, **R8Sig**) will also be individually approaching their counterparts within the various OU's to solicit content, stories and information. Hence, liaise with your respective OU officers (section, society, SB, AG etc.) and kindly collaborate with them, so we may be able to support you efficiently.

Besides the above, should you have any other questions, concerns, ideas or feedback etc, please feel free to reach out to me directly at [adeelsultan.ieee@gmail.com](mailto:adeelsultan.ieee@gmail.com).

You may also contact the entire PnC Subcommittee at [pnc@ieeer8.org](mailto:pnc@ieeer8.org) or you may visit us at our main website <https://ieeer8.org/pnc/>

Moreover, for recent news, you may go to our main news webpage: <https://ieeer8.org/news/>

Finally, save this message for future reference, don't forget to get in touch with us and especially don't forget to "subscribe" to our social-media handles. Make use of this excellent facility to promote your IEEE stories, events, activities & achievements.

Look forward to hearing from you all soon.

**Adeel Sultan**  
Chair, R8 PnC



## IEEE region8news

Vol 22 No 1  
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IEEE Region 8 News is our quarterly newsletter, published by Region 8 Committee to keep IEEE members within the Region updated on programs, initiatives, events, and activities. The printed edition is distributed free with IEEE Spectrum to IEEE members throughout the Region and the electronic version is distributed via email to IEEE Region 8 members, and downloadable from the Region 8 News website as well. IEEE Region 8 News is produced by

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[ieeer8.org](http://ieeer8.org)

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This publication is here to showcase events, achievements and news items from across the region. As this is produced with specific deadlines throughout the year it is an ideal medium for reporting on past events, meetings or stories – with the ability to promote future events somewhat. We welcome reports, stories and general content – including photo. Please find the guidelines for content submission [here](#).  
**“Deadline for content submission for the September 2021 issue: July**



### REGION 8 OPERATING COMMITTEE OFFICERS 2021–2022

#### Operating Committee (OpCom)

Director  
Antonio Luque (Spain)  
[director@ieeer8.org](mailto:director@ieeer8.org)

Director-elect  
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Vice-chair, Technical Activities  
Peter Nagy (Hungary)  
[technical.activities@ieeer8.org](mailto:technical.activities@ieeer8.org)

#### Appointed Members

Action for Industry  
John Matogo (Kenya)

Region 8 News  
Catia Bandeiras (UK & Ireland)

Awards & Recognition  
Magdalena Salazar Palma (Spain)

Standards Coordinator  
Tuncer Baykas (Turkey)

Chapters  
Andrejs Romanovs (Latvia)

Strategic Planning  
Magdalena Salazar Palma (Spain)

Conferences  
Habib Kammoun (Tunisia)

Student Representative  
Theodoros Chatzinkoulou (Greece)

Humanitarian Activities  
Abdulateef Aliyu (Nigeria)

Women in Engineering  
Maria Alexandra Poun (Switzerland)

Membership Development  
Mike Hinchey (UK & Ireland)

Young Professionals  
Almedin Kavaz (Germany)

Professional and Educational Activities  
Conrad Attard (Malta)

#### Ad-hoc Members

Africa Council Chair  
Vincent Kaabunga (Kenya)

New Student Contests Initiative  
Lee Crudginton (UK & Ireland)

Careers New Initiative  
Mohammed Amin (Egypt)

Publications and Communications  
Adeel Sultan (United Arab Emirates)

Diversity, Equity and Inclusion  
Mona Ghassemian (UK & Ireland)

Region 8 Sigma  
Christopher James (UK & Ireland)

Electronic Communications  
George Michael (Cyprus)

Region 8 Today  
Hazar Oklah (Jordan)

Electronic Communications Assistant

Maria Efthymiou (Cyprus)

Region Vitality Coordinator  
Matej Zajc (Slovenia)

Finance  
Adam Jastrzebski (UK & Ireland)

Sections Congress Coordinator  
Costas Stasopoulos (Cyprus)

History Activities  
Martin Bastiaans (Benelux)

SYP Congress Coordinator  
Barbara Vujkov (Serbia)

Life Members  
Peter Magyar (Germany)

Social Media  
Mohammad Hossein Babae (Portugal)

New Industry Events Initiative  
Nihal Sinnadurai (UK & Ireland)



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## TryEngineering

IEEE Pre-University Volunteer STEM Portal

Share your [programs](#) at on the IEEE Pre-University Volunteer STEM [Portal](#) so we can demonstrate the collective impact IEEE is making to inspire the STEM professionals of tomorrow.

[TryEngineering.org](#) launched a new IEEE Pre-University Volunteer STEM [Portal](#) to support IEEE volunteers in their STEM outreach initiatives as well as building local STEM communities. The new STEM portal is the place to be for all things related to pre-university STEM programs at IEEE, featuring a searchable database of programs and “how-to” resources developed by volunteers like you. Share your programs today!

Together, Let’s Share. Give Back. And Inspire as many students as possible.

For more information:  
[volunteerstemportal@ieee.org](mailto:volunteerstemportal@ieee.org)



## 2021 IEEE Medal and Recognition Recipients + 2022 Call for Nominations

*Lynn Frasetti, Senior Awards Presentation and Communications Specialist, IEEE Corporate Activities - Awards*

We are pleased to announce that the 2021 IEEE Medal and Recognition recipients can be found on the new Awards website at: <https://corporate-awards.ieee.org/>

[recipients/current-recipients/](#). The recipients have been notified. Please feel free to send your own notes of congratulations and to publicize the recipients.

These awards were be presented at the virtual 2021 IEEE Vision, Innovation, and Challenges Summit & Honors Ceremony, 11–13 May 2021.

IEEE Awards is now accepting nominations for IEEE Medals and Recognitions. The deadline to nominate a colleague is 15 June 2021. Nominate a colleague today!

The IEEE Awards Program is more than 100 years old, a peer-recognized program of achievement that has recognized leaders and visionaries who have paved the road of discovery in ways no one would ever imagine. IEEE Awards inspire achievement and set a standard of excellence and a motive to aspire to shape the future for the benefit of humanity, one innovation at a time.

For more information on how to submit nominations, please visit <https://corporate-awards.ieee.org/corporate-awards/> among all ages, due to the second wave of the global pandemic.

The speaker and IEEE Medal and Recognition presentations from the 2021 IEEE Vision, Innovation, and Challenges Summit can be watched on the Awards Channel on IEEE.tv each day after the 11–13 May event at: <https://ieeetv.ieee.org/channels/ieee-awards>. For more information about the event and to view the Agenda, go to: <https://corporate-awards.ieee.org/event/2021-vic-summit-honors-ceremony-gala/#when-where>

## IEEE Portugal Engineering Day 2020

*Carlos Ferreira, IEEE EMBS Portugal Chapter*

The IEEE Engineering Day has been promoted by the Portuguese section since 2015. It has been held in different cities: Aveiro (2015), Coimbra (2016), Lisbon (2017 and 2018), and Porto (2019). This year due to the pandemic context it was held in a virtual format. This day had included various presentations or focused on different topics such as smart cities (2017) and industry (2018). Another important fact is the organization has been changing over time from Student Branches (2015 and 2016), to Chapters (2020), made entirely by the Section with the support of Higher Education Institutions (2017 and 2018) or in cooperation with other events, such as WiE ILS 2019.

Basically, the IEEE Engineering Day is a day when the Portuguese section shows itself to the community and promotes the discussion of relevant topics in academia and industry. This year it had 2 main sessions: Sensors and Logistics, 2 interdisciplinary subjects, in addition to the initial IEEE presentation and the Awards Session.

The panel of speakers was built with input from different chapters in our section: IMS (Octavian Postolache), EMBS, SSCS (João Pedro Oliveira), IAS (Bernardo Martins), CS (Tiago Silva and Rui Nóbrega), and Blockchain Working Group (Catarina Reis). More about the program can be found at <https://engineeringday.ieee-pt.org/2020/>. Over 4 hours, it was possible to keep up with an interesting exchange of ideas from 6 speakers. In the Sensors session, with contributions from Olfa Kanoun, Paulo Mendes, and João Pedro Oliveira, topics such as smart sensors, health sensors, and the Internet of Things (IoT) were discussed. In the Logistics session, with Rui Sequeira, José Pedro Silva, and Miguel Pupo Correia, the discussion moved from supply chains to micro logistics and blockchain. These engaging panels were attended by 175 attendees from 10 countries, of which 1/3 were IEEE members.

In the final session, the Executive Committee (ExCom) presented the different awards that members and student branches won through their

### Region 8 Member and Activity Features



IEEE Engineering Day 2020 - IEEE Portugal Section

...continued on page 6 ►

## Region 8 Member and Activity Features ...

societies, R8, and IEEE globally. Also, chapters and members were awarded at the Portuguese section level for the years 2018 and 2019. Finally, the 6 awardees of the Outstanding MSc Thesis Award were announced. The first edition of this Award was quite competitive, with 56 submissions from different technical domains.

The Portuguese section of the IEEE has more than 1000 members. Chapters, Affinity Groups, and Student Branches are a good way to promote and create engagement for IEEE in our country, with the Portugal Section often having a fundamental engagement, regulatory, and bureaucratic role. In this way, I consider that the IEEE Engineering Day in this annual format is undoubtedly quite interesting since it allows shifting focus from the specific groups the members are affiliated with, and allows dialogue between different members and groups within IEEE, building something for the community.

In my view, events organized by a section sometimes have little participation. The main factor is that “engineering” by itself is a very broad topic and the participants want the “tree leaf”. In order to suit all the technical chapters, I think it makes sense to create multidisciplinary events. The interface areas allow the crossing of different realities, different specialties and approaches, which is usually a very pleasant mix of experiences. On the other hand, all events have become virtual due to the Covid-19 pandemic. Despite its share of saturation in this situation, we can see this as a way to break down barriers and bring people together that would not otherwise be possible.

Finally, I would like to thank the speakers for the excellent interventions, the members who helped form the panels, the Portugal Section, the Communications Team, and all participants for being part of this event. Despite being the first edition in a fully Virtual format, we believe that the event went quite well.

## IEEE Nigeria Section Adopts Hybrid Educational System

*John Funso-Adebayo & Gana Haruna, IEEE Nigeria Section*

It is no longer news that the COVID-19 global pandemic has forever changed the way we learn and teach in schools around the world!

The Hybrid Educational System combines both physical and virtual

presences to achieve the much anticipated knowledge sharing and peer reviews. It is a new normal that has come to stay, and will be distributed across all ages and categories of learning/teaching. It has actually brought the entire world to a converged Educational System, while utilizing an expanded content of Educational Resources. The IEEE Nigeria Section has deemed it fit to collaborate with the IEEE Learning Network in delivering Online Virtual Tools, to enhance productivity and reduce brain drain among all ages, due to the second wave of the global pandemic.

## Region 8 Affinity Groups and Special Interest Groups

### IEEE Region8 HAC/ SIGHT Leads at Par – Globally

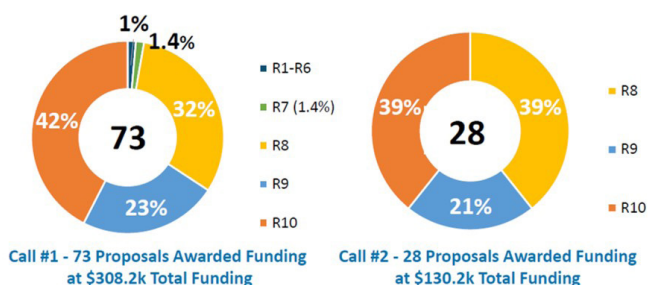
*John Funso-Adebayo, IEEE Region 8 HAC/ SIGHT Past Chair*

2020 was phenomenal throughout. It was a year that was not meant to be, as everything was shutdown, globally. The entire world has been reset 100 years backwards and all technologies and human lives are now obsolete, there is the need for renewed purpose-driven

options, in Advancing Technology for Humanity. The IEEE Region 8 Humanitarian Activities Subcommittee (HAC) was at the forefront of extending the available palliatives and funding opportunities to all the IEEE Sections within the Region8, through their respective IEEE SIGHT Groups.

To make it easier, Communities of Practice were setup for each project such as Medical, ICT, Agriculture, Education, and so on. Experts were engaged to mentor successfully approved projects while un-approved project proposals were reviewed with the respective applicants for future submission. For the first time, the IEEE Region8 had equally funded projects with the IEEE Region 10, in the Call 2-Proposals, for 2020. The 2021 Call for Proposals for HAC/SIGHT activities related to COVID-19 recently closed on March 1st 2021, therefore stay tuned for the approved projects from the Region.

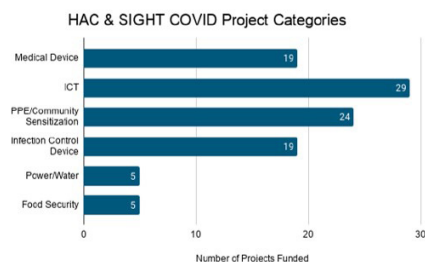
### The Results: Proposals Awarded Funding from Calls 1 & 2



### Now: Development of Communities of Practice (CoPs)

*Bringing together projects by thematic area to increase project impact, member engagement and professional development – All CoPs are currently underway*

- Led by experienced IEEE volunteers
- Increase information sharing between related projects to speed learning curve
- Provide guidance and mentoring, when needed
- Develop and track common indicators
- Collect lessons learned to enable future replication and scaling



## Upcoming events

# EUROCON 2021

The 2021 IEEE 19th International Conference on Smart Technologies (EUROCON) with information about the Conference, the city of



**IEEE EUROCON-2021**  
"Dedicated to the first public performed test launch of the Lebedev MESM – November 6, 1950"  
July 6 - 8, 2021 · Hybrid Format · Lviv, Ukraine

**Important Dates**  
Paper Submission: **March 15, 2021**  
Tutorial Request: **April 15, 2021**  
Paper Acceptance Notification: **May 31, 2021**  
Final Paper Submission: **June 10, 2021**

**Registration Fees**

	Virtual	In-person
IEEE Member	60 EUR	250 EUR
Non-member	80 EUR	360 EUR
IEEE Student/Life	45 EUR	220 EUR
Student	60 EUR	250 EUR

In-person for limited number:  
 Included Welcome Party, City Tour, Participants Bag, Conference Program & Proceedings, Farewell Dinner and Coffee-breaks  
 Included Conference Program & Proceedings, online participation

**Travel Grants**  
IEEE Region 8 provides VCF grants for IEEE R8 Members. Its fund is fed by voluntary contributions donated by Region members. The money is then used to support members and specially students and graduate student members with low come in their professional and technical activities:  
<https://ieee.org/activities/voluntary-contributions-fund/>

**Visa**  
For foreign participants: **NO VISA** to enter Ukraine is required for citizens of EU, Switzerland, Norway, USA, Canada, Germany, Japan, Turkey and some other countries. Visitors from the other countries have to contact the Ukrainian Embassy for the information.

**Contacts**  
Website: <http://eurocon2021.org>  
E-mail: [orgcom@eurocon2021.org](mailto:orgcom@eurocon2021.org)

**Call for Papers**  
The 2021 IEEE 19th International Conference on Smart Technologies (EUROCON) is an IEEE Region 8 flagship conference for the Europe. IEEE EUROCON 2021 will be held in Lviv, Ukraine, 6 - 8 July 2021. Conference organized in hybrid format. In-person participation is available for limited number of participants.  
The conference is dedicated to the first public performed test launch of the Lebedev MESM on November 6, 1950. MESM as an Experimental Electronic Calculating Machine was research in nature, in order to experimentally test the principles of constructing universal digital computers.  
The conference is co-sponsored by IEEE Region 8 and the IEEE Ukraine Section.

**Conference Topics**  
Track 1: Computer Science, Circuits and Signal Processing  
Track 2: Computational Intelligence & Artificial Intelligence  
Track 3: Data Science, Machine Learning & Vision  
Track 4: Systems, Man, and Cybernetics  
Track 5: Systems Analysis and Engineering, Decision Making Systems  
Track 6: Communication Technologies and Networks  
Track 7: Information and Encoding Theory  
Track 8: Dependable Systems, Services and Technologies  
Track 9: Power Engineering and Energy  
Track 10: Industrial and Consumer Applications  
Special Track: Ukrainian ECE Education & History

**Paper Guidelines**  
Submitted papers must be unpublished and should not be submitted elsewhere at the same time. Papers must have from 4 to 6 full pages according IEEE Conference Manuscript Standard. All submitted papers will be peer reviewed by at least three independent reviewers.  
The official Conference language is English. Conference Proceedings will be submitted for inclusion in IEEE Xplore Digital Library. "No-show" papers won't be submitted for inclusion in IEEE Xplore Digital Library. Each author can submit and present no more than 3 papers.

**Venue**  
Lviv is a very beautiful city with its narrow medieval streets paved with stones, architectural decoration done in different styles preserved in its original form, architecture of Lviv with its buildings, churches, monuments and relics make a magnificent atmosphere. The central part of Lviv is included in the UNESCO list of World Heritage. More information: <https://lviv.travel/en>

**Call for papers**  
Arusha International Conference Center | 13-15 September 2021

Lviv and Partners. The event will take place on July 6 – 8, 2021 in hybrid format (virtual and in-person). In-person participation is available for limited number of participants.

IEEE EUROCON-2021 is dedicated to the first public performed test launch of the Lebedev MESM on November 6, 1950. MESM as an Experimental Electronic Calculating Machine was research in nature, in order to experimentally test the principles of constructing universal digital computers.

Paper submission closes on March 15th 2021. Please visit the website for more information:

<http://eurocon2021.org/>



# AFRICON 2021

The IEEE AFRICON 2021 conference, in Arusha, Tanzania. The event will take place 13-15 September under the theme of "Contributing to the Industrialisation of Africa through Innovations in Science and Technology". AFRICON is an IEEE Region 8 flagship conference on the African continent. IEEE AFRICON 2021 will be held in Arusha, Tanzania, 13 – 15 September 2021. The conference is co-sponsored by IEEE Region 8, the IEEE Tanzania Sub-section and Nelson Mandela African Institution of Science and Technology. Topics cover the full area of IEEE, e.g., Communications, Networks, Electronics, Power and Energy, Mobile Computing, Cloud Computing, Industrial Applications, Artificial Intelligence, Nanotechnology, and E-learning. This conference will feature world-class plenary speakers, major technical symposiums, industry and academic panels, workshops, tutorials and invited tracks.

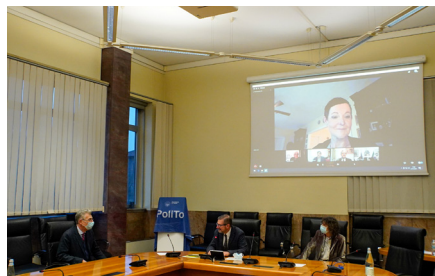
The deadline for paper submission is April 16 2021. For more information, please visit the conference website: <https://africon2021.org/>

## IEEE Milestones

# Dedication Ceremony for Milestone #212 - Galileo Ferraris - Rotating fields and early induction motors, 1885-1888

Antonio Savini, IEEE History Activities Committee Italy Section

In 1884 when the American Institute of Electrical Engineers, forerunner of the current IEEE, was founded, the industrial revolution driven by electricity was fast developing. One year later in Turin, Italy, Galileo Ferraris, an Italian engineer and a professor of the Italian Industrial Museum (now Polytechnic) of Turin demonstrated the principle of producing a rotating magnetic field (Ferraris' field) by using alternating currents. He



Milestone ceremony (from left: A. Terzani and M. Perino, professors of the Polytechnic, and T. Tambosso, pass Chair of the Section; on the screen: S.K. Land, IEEE President) (courtesy of the Turin Polytechnic)

also showed experimentally that a conducting cylinder immersed in the rotating field was rotated by it. Both the principle and the experiment are at the origin of the design of ac induction motors and, in general, of ac rotating machines. Also as a consequence of this, the ac electrical technology soon replaced the dc one in electric power engineering.

This fundamental page in the history of electrical technology was the background of

the dedication ceremony for Milestone # 212 "Rotating fields and early induction motors, 1885-1888". This Milestone was the 51st Milestone dedicated in Region 8 and the 6th in Italy.

The dedication ceremony took place in Turin, Italy on 21 January 2021, having participants connected at a distance because of the current pandemic.

Right after these opening addresses, the life of Galileo Ferraris was presented by Marco Mezzalama, Emeritus professor of the Turin Polytechnic. Then Paolo Ferraris, past professor of the same Polytechnic, spoke on "The Galileo Ferraris importance for the Electrical Energy utilization through Alternative Currents", followed by Michele Tartaglia, again past professor at the same Polytechnic, who illustrated "Galileo Ferraris the professor and the founder of AEI -Italian Electrical Association". Finally, Gerard Capolino, professor of the University of

...continued on page 8 ►



Milestone plaque unveiled (from left: A. Tenconi and T. Tambosso) (courtesy of the Turin Polytechnic)

Picardie, outlined the “Progress in AC electrical machines: from Galileo Ferraris principle to the actual technology”. The ceremony ended up with the presentation of the Milestone bronze plaque by the IEEE President, who read the citation “Galileo Ferraris, professor at the Italian Industrial Museum (now Polytechnic) of Turin, conceived and demonstrated the principle of the rotating magnetic field. Ferraris’ field, produced by two stationary coils with perpendicular axes, was driven by alternating currents phase-shifted by 90 degrees. Ferraris also constructed prototypes of two-phase AC motors. Rotating fields, poly-phase currents, and their application to induction motors had a fundamental role in the electrification of the world”. Then our IEEE President, at a distance, together with Tiziana Tambosso, past President of the Italy Section, and with prof. Alberto Tenconi, unveiled one of three copies of the plaque: two of them will be located in the Turin Polytechnic, in the Department of Energy and in the new Energy Center House respectively, while the third one will be placed in the Ferraris’ house in the village where he was born.

The ceremony was attended at a distance by some 190 participants, including Life members of the IEEE Italy Section.

One can find out more about the dedicated Milestone by visiting the IEEE Global History Network . [www.ieeeahn.org](http://www.ieeeahn.org)

## Gravitational Wave Antennas (LIGO-VIRGO) milestone - An international event recognizing how massive antennas in the US and Italy confirmed Einstein’s 1916 prediction about the nature of gravity

On February 3rd 2021, a 90-minute livestream event ran from 1630-1800 UTC, honoring the uniquely sophisticated devices that confirmed Einstein’s prediction of gravitational waves 104 years ago.

This informational and entertaining program was intended for a wide audience. It included the dedication of an IEEE Milestone in 3 locations: Hanford, [Washington USA](#), Livingston, Louisiana [USA](#), and Cascina (Pisa), Tuscany, [Italy](#) . These are the sites of the two LIGO (Laser Interferometer Gravitational-Wave Observatories) antennas in the US, and the Virgo antenna at EGO (European Gravitational Observatory) in Italy.

Attendees learned about what led to construction of these antennas, whose kilometer-scale arms can detect the tremendous gravity resultant from the merger of black holes and binary neutron stars that are up to 3 billion light-years away.

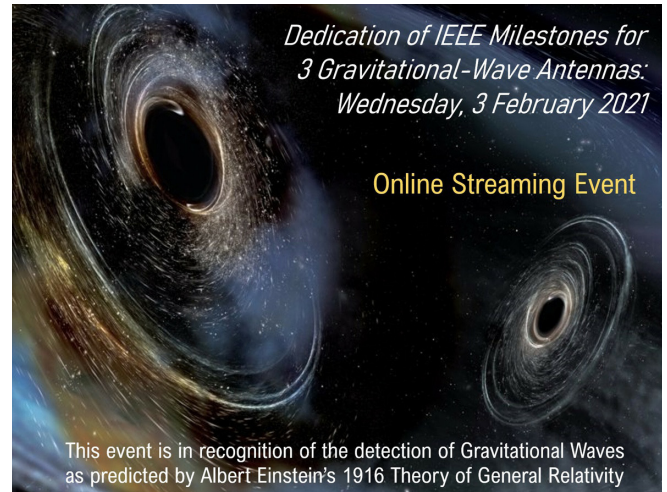
Caltech’s Rich Abbott led a discussion with Drs. Rainer Weiss, Kip S. Thorne and Barry C. Barish, who jointly were awarded the [2017 Nobel Prize in Physics](#) “for decisive contributions to the LIGO detector and the observation of gravitational waves.”

The parallel development of the European Virgo antenna was addressed

by key Virgo antenna contributors Kathy Nary Man and Jean-Yves Vinet. Current Asian developments were described by Takaaki Kajita, principal investigator of Japan’s KAGRA antenna, who shared the [2015 Nobel Prize in Physics](#) “for the discovery of neutrino oscillations, which shows that neutrinos have mass.”

Other contributors from the US, Italy and France, along with government and agency dignitaries, round out the program, which will conclude with the unveiling of bronze IEEE Milestone plaques at each of the 3 sites.

A wealth of information is at [www.GWAMilestone.com](http://www.GWAMilestone.com)



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