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<https://r1.ieee.org/maine/>



## Announcements

Maine Section has launched a **Facebook page**. Find us at <https://www.facebook.com/ieeeme>. Please follow, share, and let us hear from you.

Find us on 

Please **renew your IEEE membership** for 2022, if you haven't already. Students should use promo code FUTURE50 to save 50%. If economic circumstances impact your ability to pay your 2022 dues, see page 8 for information on reduced dues options.

## Upcoming Events

### Algorithm and Hardware Co-Design for Energy-Efficient Deep Learning

*Tuesday, November 30, 7:00 PM to 8:00 PM, Online; **Free Registration required***

In the emerging artificial intelligence era, deep neural networks (DNNs), a.k.a. deep learning, have gained unprecedented success. However, DNNs are usually storage intensive, computation intensive, and energy consuming, thereby posing severe challenges on the future wide deployment in many application scenarios, especially for resource-constrained low-power IoT applications and embedded systems. **Dr. Bo Yuan** of **Rutgers University** will discuss algorithm/hardware co-design for energy-efficient DNN. Co-hosted by the NY and NJ Coast **ComSoc** chapters. Visit <https://events.vtools.ieee.org/m/282338> for more info.

### Cyber Security: Webinar Series Part 2

*Wednesday, December 1, 10:00 AM to 11:00 AM, via Zoom; **Free Registration required***

The **Maine State Chamber of Commerce** is hosting a two-part webinar series on cybersecurity in an effort to increase awareness about the importance of cybersecurity on a global scale. A recording of **Part 1** is available [here](#), which had a panel that included **U.S. Senator Angus King** and **CISA Chief of Staff Kiersten E. Todt**. The panelists for Part 2 will be announced prior to the event. Co-sponsored by IEEE Maine Section. Visit <https://www.mainechamber.org/webinar40.html> for more info.



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## Have a Happy Thanksgiving



## Section Officers

### Executive Committee:

Chair: [Ashanthi Maxworth](#)  
 Vice Chair: [Julia Upton](#)  
 Treasurer: [Shengen Chen](#)  
 Secretary: [Ashanthi Maxworth](#)  
 Past Chair: [Betina Tagle](#)

### Affinity Group (AG) & Technical Chapter Chairs:

Women in Engineering AG:  
[Sonia Naderi](#)  
 Young Professionals AG:  
[Matt Dube](#)  
 Communications + Computer Societies Joint Chapter:  
[Julia Upton](#)  
 Electron Device + Solid-State Circuits Societies Joint Chapter:  
[Jifa Hao](#)  
 Engineering in Medicine & Biology Society ME/NH/VT Joint Chapter:  
[Rosemary Smith](#) (Co-Chair)  
 Power & Energy + Industry Applications Societies Joint Chapter:  
[Jesse Shank](#)

### Other Committee Chairs & Positions:

Audit: [Ron Brown](#) & [Ali Abedi](#)  
 Awards and Recognition:  
[Rosemary Smith](#)  
 Educational Activities: [Matt Ring](#)  
 Member-at-Large: [Daniel Spacek](#)  
 Member Development: [Rich Hilliard](#)  
 Newsletter Editor: [David Klein](#)  
 Professional Activities: [Dick Wilkins](#)  
 Public Relations: [Ron Brown](#)  
 Student Activities: [Lauren Mayhew](#)  
 Webmaster and Social Media:  
[Doug Sprague](#)  
 University Faculty Advisors:  
 IEEE Student Branches:  
[Jude Pearse](#) (UMaine)  
[Ashanthi Maxworth](#) (USM)  
 HKN Delta Kappa Chapter: [Ali Abedi](#)

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## Upcoming Events [continued from page 1]

### Latest Development of Power Multilevel Converter; Topology, Control and Industrial Applications

Friday, December 3, 11:30 AM to 12:30 PM, via Zoom; find the "join" link on the info page

DC/AC and AC/DC power multilevel converters make use of power semiconductor devices that should be properly controlled to maximize efficiency. The primary challenges are to find appropriate topology, design the suitable PWM switching techniques, and apply the appropriate controller. [Dr. Mohammad Sharifzadeh](#) will discuss recent developments, with emphasis on compact power converters. Hosted by the Montréal IEEE Industrial Electronics Chapter. Visit <https://events.vtools.ieee.org/m/288670> for more info.

### Spacecraft Antennas for Earth Science and Interplanetary Missions

Friday, December 3, 7:00 PM to 8:30 PM, Online; **Free Registration required**

[Dr. Nacer Chahat](#) of NASA's Jet Propulsion Laboratory will discuss spacecraft antennas for Earth science and interplanetary missions. Co-hosted by Montréal's IEEE Young Professionals chapter. Visit <https://events.vtools.ieee.org/m/290820> for more info.



### Rethinking the Impact of Inequity on STEM Writing Instruction

Monday, December 6, 3:00 PM to 4:00 PM, via Zoom; **Free Registration required**

[Dr. Heather Falconer](#) of UMaine will examine the impact of systemic bias and discourse expectations on underrepresented college students in science as a factor that can push students from—or pull them toward—the discipline. To join the presentation, sign up for the RiSE e-mail list by contacting [risecenter@maine.edu](mailto:risecenter@maine.edu). Visit <https://umaine.edu/risecenter/event/rise-colloquium-heather-falconer/> for more info.



### IEEE Maine Section Executive Committee (ExCom) Meeting

Monday, December 6, 5:00 PM to 6:30 PM, via Zoom

All IEEE members are welcome to attend. E-mail [Ashanthi.Maxworth@ieee.org](mailto:Ashanthi.Maxworth@ieee.org) for agenda info, meeting ID, and passcode.

### Adding No Code/Low Code Solutions to your IT Toolkit

Wednesday, December 8, 11:00 AM to 12:00 PM, via Webex; **Free Registration required**

[William Wade](#) of Dirigo Software Solutions will discuss the recent trend for "Low Code" or "No Code" software tools. His talk will explore two of the more popular tools - Zapier and Power Automate (formerly Microsoft Flow) and how they fit within an organization. Additionally, he will look at some practical examples of how to use them to solve day-to-day tasks. Hosted by the Maine Technology Users Group (MTUG). Visit <https://www.mtug.org/mtug-events/2021-12-01-mtug-exectech-webinar-adding-no-code-low-code-solutions-to-your-it-toolkit> for more info.



### Process and Value Stream Mapping Basics

Wednesday, December 8, 11:00 AM to 12:00 PM, via Zoom; **Free Registration required**

Value Stream Process Mapping (VSPM) can be viewed as a means to expose waste that's hiding in an organization's systems and processes. It's used to quantify the flow of throughputs as well as waste, rework, queue time and other drains on resources.

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## Upcoming Events [continued from page 2]

Join [Jim Leonard](#) to examine clear guidelines to closely assess your current processes, and effective tools for exposing opportunities for improvement that eliminate frustration, errors, delays and excessive costs. Hosted by the IEEE Boston/Providence/New Hampshire [joint Reliability Chapter](#). Visit <https://events.vtools.ieee.org/m/290681> for more info.

### Multifunctional Integrated Nanoelectronics for The Brain

Thursday, December 9, 12:00 PM to 1:00 PM; via Zoom; **Free Registration required**

Nanoelectronics can be tailored to uniquely complement other fields and practices studying the brain. [Prof. Hui Fang](#) of [Dartmouth College's Thayer School of Engineering](#) will discuss multifunctional integrated nanoelectronics for the brain, including microscopical, therapeutic, and connectomical examples, that have been enabled by new concepts in materials science, electrical engineering, and advanced manufacturing. Hosted by IEEE Boston Section's [Engineering in Medicine & Biology Society](#) chapter. Visit <https://events.vtools.ieee.org/m/290690> for more info.



### 2022 IEEE Rising Stars Conference

Sunday, January 2 to Tuesday, January 4, in-person in Las Vegas and Online; see [registration page](#) for fee info — early-bird registration ends November 29

The conference brings together young professionals and students from around the world to network with and hear from industry experts. The event is designed to help attendees better prepare to face the challenges presented to them, and arm them with contacts and insights to enhance their careers. Visit <https://ieee-risingstars.org/2022/> for more info.

### IEEE Maine Section Executive Committee (ExCom) Meeting

Monday, January 3, 5:00 PM to 6:30 PM, via Zoom

All IEEE members are welcome to attend. E-mail [Ashanthi.Maxworth@ieee.org](mailto:Ashanthi.Maxworth@ieee.org) for agenda info, meeting ID, and passcode.

### 2022 12<sup>th</sup> Annual IEEE Computing and Communication Workshop and Conference

Wednesday, January 26 to Saturday, January 29, 2022, Online; see [registration page](#) for fee info — early-bird registration ends January 17

This virtual conference will provide an opportunity for researchers, educators, and students to discuss and exchange ideas on issues, trends, and developments in Computing and Communication. [Corporate](#) and [research](#) keynote speakers will be announced prior to the conference. Co-sponsored by [IEEE-USA](#) and [IEEE Region 1](#). Visit <https://ieee-ccwc.org> for more info.

### IEEE Maine Section Executive Committee (ExCom) Meeting

Monday, February 7, 5:00 PM to 6:30 PM, via Zoom

All IEEE members are welcome to attend. E-mail [Ashanthi.Maxworth@ieee.org](mailto:Ashanthi.Maxworth@ieee.org) for agenda info, meeting ID, and passcode.

### Terahertz Days: Plasmonic Terahertz Optoelectronics

Tuesday, February 8, 4:00 PM to 5:00 PM, Online; **Free Registration required**

Although the unique potentials of terahertz waves for chemical identification, material characterization, biological sensing, and medical imaging have been recognized for quite a while, the relatively poor performance, higher costs, and bulky nature of current terahertz systems continue to impede their deployment. In this talk, [Prof. Mona Jarrahi](#) of [UCLA](#) will describe fundamentally new terahertz electronic/optoelectronic components and imaging/spectrometry architectures to mitigate performance limitations of existing terahertz systems, including new designs that utilize plasmonic nanoantennas to offer terahertz radiation at record-high power levels. Co-hosted by [IEEE Montréal Section](#) and [Montréal's IEEE Young Professionals chapter](#). Visit <https://events.vtools.ieee.org/m/286633> for more info.



See the IEEE [Region 1 Calendar \(https://r1.ieee.org/calendar/\)](https://r1.ieee.org/calendar/) and IEEE vTools Search (<https://meetings.vtools.ieee.org/events/search>) for more events.

## Chair's Corner



By Dr. Ashanthi Maxworth

Now as the weather is getting colder day by day, I hope all of you are getting ready for the winter! Winter indicates the approaching festive season of Christmas, New Year, and of course - snow! At IEEE Maine we are keeping the momentum going with multiple events, and

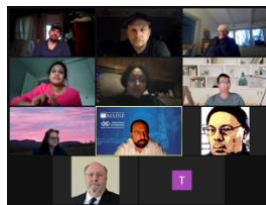
activities. Please check out the events page of this newsletter and our Facebook page [IEEEME](#) for upcoming events and how to register. In addition, we are looking for volunteers to serve within our community. If you would like to join us, please reach out to me through our contact page of via social media. See you in December

– Ashanthi

## Executive Committee Session

*Editor's synopsis based in-part on draft minutes*

On November 1, the IEEE Maine Section Executive Committee (ExCom) held their monthly session on Zoom.



Chair **Ashanthi**

**Maxworth** asked UMaine IEEE Student Branch

President **Tori Nicholas** to introduce herself.

After Tori's introduction, Treasurer **Shengen Chen** reported on the Section's financials, noting that the \$220 that the Section owes the Computer and Communications Societies joint chapter will be paid within this month.

The next topic was the Section's Young Professionals chapter. The Section has received notifications from IEEE that the Section's Young Professionals (YP) chapter will be dissolved due to inactivity. Therefore, IEEE Region 1 Executive Committee Member **Ali Abedi** suggested that the YP chapter organize an event as soon as possible to avoid dissolution. By e-mail prior to this ExCom session, Maine YP chapter Chair **Matt Dube** had circulated the idea of hosting a trivia night. Upon discussion, ExCom supported that idea. Another idea discussed was sending a few students to an [IEEE Rising Stars conference](#). Matt asked Tori to share her thoughts on the idea in order to get a

student's point of view. Matt also noted that the YP chapter needs a new chair in 2022, as he is aging-out of the YPs.

As for the budget, as long as the total cost stays below \$500, Shengen pointed out that the YP chapter can proceed with any activity without requiring ExCom approval. Matt plans to work on hosting an event before the end of the year.

Moving on, there was a brief reminder that the Section will be holding an election for the Chair and Vice-Chair positions by the end of this year.

Membership Development Chair **Rich Hilliard** mentioned that as of November 1, approximately one-half of the Section membership and one-third of the Young Professionals had renewed their membership. There was a discussion following Rich's report on the importance of hosting membership development events to attract students and young professionals.

Asked about social media, committee member **David Klein** noted that the [Section's Facebook page](#) is up (as discussed at the October ExCom session) and that members are invited to like, follow, and share it. (**Editor's Note:** as of this writing, the Section's Facebook page has 12 likes and 16 followers).

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Having circulated an e-mail on October 25 about potentially sponsoring the [2022 Maine State Science Fair](#), Professional Activities Chair **Dick Wilkins** brought the proposal before ExCom. In past years, Maine Section has sponsored the event. Based on a favorable response to providing a \$1,000 sponsorship, Dick is going to check with Region 1 to see if \$750 in [PACE](#) matching funds are available. (*Editor's Note:* in 2021, the Section contributed \$1,000 from the Section's budget and \$750 in PACE funds from IEEE R1). Dick will provide more information as available.

On November 4, after the ExCom Session, a proposal was circulated to sponsor part of a two-part [cyber-security webinar](#) being put on by the [Maine State Chamber of Commerce](#) at a \$750 level. The first part of the event was scheduled for November 18, and the second part for December 1. Ashanthi sent out an e-vote request on Thursday, November 4 and collected votes until the evening of Friday, November 5. After discussion and based on the majority votes, it was decided that the Section will sponsor the event.

People Driving  
Technological  
Innovation

#IEEEmember



## Send Us Articles and Events

[The Beacon](#) and Maine Section [website](#) and [Facebook page](#) are always looking for content. In particular:

**Events:** Please let us know about upcoming live engineering, science, and professional development events in Maine (preferably at least four weeks beforehand, although we will try to accommodate shorter notice).

**Articles:** We are interested in original technical, professional development, college-life, and Maine-interest articles. Original graphics and photographs are encouraged. Length is flexible.

**Patents and Publications:** Please let us know if you are presenting a paper at a conference, have recently been published in a peer-reviewed journal, or have recently received a U.S. Patent.

**Newsworthy Stories:** Do you know about something that might be of interest to IEEE Maine Section members that might have otherwise escaped their attention? If it is something that you've seen in media or in a press release, please tell us the source so that we may provide attribution.

**All submissions are subject to editorial review.**

Send submissions to [IEEEMaineBeacon@gmail.com](mailto:IEEEMaineBeacon@gmail.com), or via our website's [Contact Page](#), or via [Facebook](#).

## Become a Senior Member

Senior Member is the highest grade for which IEEE members can apply, and is regarded as a recognition of your peers for technical and professional excellence.

IEEE members can self-nominate, or [be nominated](#), for Senior Member grade. To be [eligible](#) for application or nomination, candidates must:

- Be engineers, scientists, educators, technical executives, or originators in [IEEE-designated fields](#)
- Have experience reflecting professional maturity
- Have been in [professional practice for at least ten years](#) (with some credit given for time in school earning certain degrees)
- Show [significant performance over a period of at least five of the years](#) in professional practice

*IEEE-designated fields* are:

- Engineering
- Computer sciences and information technology
- Physical sciences
- Biological and medical sciences
- Mathematics
- Technical communications, education, management, law and policy

Examples of *significant performance* include:

- Substantial engineering responsibility or achievement
- Publication of engineering or scientific papers, books, or inventions
- Technical direction, or management of important scientific or engineering work, with evidence of accomplishment
- Recognized contributions to the welfare of the scientific or engineering profession
- Development or furtherance of important scientific or engineering courses that fall within the IEEE designated fields of interest
- Contributions equivalent to those of the above in such areas as technical editing, patent prosecution, or patent law, provided these contributions serve to advance progress substantially in IEEE designated fields

The time periods demonstrating significant performance **do not** need to have occurred in the years immediately prior to the application.

Candidates must supply [three references](#) from current IEEE members holding the grade of Fellow or Senior Member. While it may be beneficial to know your references, it isn't required. To see a list of potential references in the Section, log into [IEEE Collabratec](#), select the "People" tab, select "Maine Section" in the left-hand column, and under "Member Status," select "Senior Member," "Life Senior," "Fellow," and "Life Fellow." Many of them would be happy to help you, but if you would like assistance arranging references, please [contact Professional Activities Chair Dr. Dick Wilkins](#).

Applications are submitted online. When you apply, upload your resume/CV, which should clearly specify the date ranges establishing your relevant work experience and highlight the areas of your experience that show *significant performance*. It is **essential** to thoroughly document relevant dates and the specific activities that demonstrate *significant performance*. There is no need to highlight routine job responsibilities.

Contact your references early and provide them your resume/CV. You will need their IEEE member number for your application. After you submit your references' member numbers, they will be sent what they need to submit their comments.

If you are being nominated by the Section rather than self-nominating, **do not** create your own application, as it will be created for you.

Visit <https://www.ieee.org/membership/senior/> for general info, click [here](#) for frequently asked questions, and [here](#) for checklists and deadlines.

*You've always set yourself apart.*

**IT'S TIME TO MAKE IT OFFICIAL.**

**APPLY**

for Senior  
Member grade



## Member Accolades

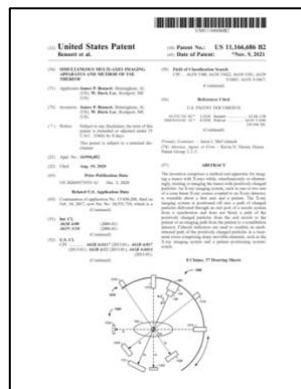
Congratulations to the IEEE Maine Section members who recently received patents or were published:

On October 27, 2021, in the [Proceedings of the 2021 IEEE 29<sup>th</sup> International Requirements Engineering Conference Workshops \(REW\)](#), IEEE published “[Lattice-based Contextual Integrity Analysis of Social Network Privacy Policies.](#)” Maine Section Members [Stephen Kaplan](#) and [Sepideh Ghanavati](#) are co-authors.

ABSTRACT: More than four billion users use online social networks (OSNs) and integrate themselves into their ecosystems. Consequently, these users are increasingly tasked with understanding the implications of their consenting to the privacy practices of OSNs via privacy policies. However, privacy policies are often vague and confusing to users, leading to misconceptions and gaps in users’ understanding of privacy practices. In this paper, we propose the Lattice-Based Contextual Integrity Analysis (LCIA) framework to help make quantitative determinations about how likely an OSN’s privacy policy is to mislead users with regard to its information flow practices, relative to other OSNs. We evaluated LCIA with 13 OSNs’ privacy policies and identified that OSNs with more privacy-violating information flow practices are more likely to mislead users through ambiguous statements, thereby exposing them to greater privacy risk.

On November 9, 2021, the U.S. Patent and Trademark Office issued [U.S. Patent 11,166,686 B2](#), entitled “Simultaneous Multi-Axes Imaging Apparatus and Method of Use Thereof.” Maine Section Senior Member [W. Davis Lee](#) of Rockport is listed as a co-inventor.

ABSTRACT: The invention comprises a method and apparatus for imaging a tumor with X-rays while, simultaneously or alternately, treating or imaging the tumor with positively charged particles. An X-ray imaging system, such as one or two sets of a cone beam X-ray source coupled to an X-ray detector, is rotatable about a first axis and a patient. The X-ray imaging system is positioned off axis a path of charged particles delivered through an exit port of a nozzle system from a



synchrotron and does not block a path of the positively charged particles from the exit nozzle to the patient or an imaging path from the patient to a scintillation detector. Fiducial indicators are used to confirm an unobstructed path of the positively charged particles in a treatment room comprising many movable elements, such as the X-ray imaging system and a patient positioning system/couch.

On November 15, 2021, in the [Proceedings of the 2021 IEEE International Ultrasonics Symposium \(IUS\)](#), IEEE published “[Impact of Thermal Stress on Attachment and Stability of High Temperature Strain Sensors.](#)” Maine Section Graduate Student Member [David Leff](#) and Maine Section Senior Member [Mauricio Pereira da Cunha](#) are co-authors.

ABSTRACT: Static and dynamic strain sensing is required in high-temperature (HT), harsh-environments (HE) for industrial, aerospace, and energy sector applications to ensure equipment and process safety, reduce the cost of operation and maintenance, and increase process efficiency. Challenges that arise in HT HE sensing applications include device mounting, packaging, integrity, and stability in HT HE conditions. In previously reported work, static and dynamic strain surface acoustic wave resonator (SAWR) sensors were fabricated on langasite (LGS) and mounted on Inconel 625 strain beams for wireless testing up to 400°C. In this work, it has been identified that after subjecting the mounted SAWR strain sensor to thermal cycling between 100°C and 425°C, the measured sensitivity to dynamic strain decreased by 73% due to cracking at the adhesive/LGS interface, further deteriorating after additional thermal cycles. Strain modeling of the mounted LGS sensor chip up to 400°C revealed the existence of concentrated strain at the borders of the LGS chip. Microcracks caused by dicing make the chip borders the most susceptible location for cracks to initiate when the sensor is subjected to thermal stress. In an attempt to mitigate the high strain at the LGS chip borders due to heating, adhesive shaping is proposed in this work. Simulations indicate a strain reduction of 50% at the border is achieved using both circular and triangular adhesive shapes, while also reducing the maximum strain over the entire adhesive/LGS interface by around 30%. The technique is thus promising for improving the integrity, reliability, and stability of static and dynamic strain sensors, particularly while operating under HT HE with several hundred-degree Celsius temperature excursions.

## Special Circumstances for Reduced IEEE Membership Dues

2022 IEEE annual renewal notices were sent out in October. If economic circumstances impact your ability to pay your IEEE dues, the following [special circumstance categories](#) have been established:

### Minimal Income

If you certify that your prior year's income did not exceed US\$15,300, you may apply for a 50% reduction in dues, assessments, and optional publication fees. You will be asked to submit your written certification with your renewal.

### Retired

A retired member, not gainfully employed and not qualifying for [Life Member status](#), upon attaining the age of 62 years, may apply for a 50% reduction in dues, assessments, and optional publication fees.

### Unemployed

If you (1) have become involuntarily unemployed and are seeking reemployment, or (2) have become voluntarily unemployed for reasons of raising children, you may apply for a 50% reduction in dues, assessments, and optional publication fees. A statement of continued unemployment must be provided with each annual dues payment. In the case of voluntary unemployment, the dues reduction shall not exceed four years.

### Permanently Disabled

Membership dues and assessments are waived for members who become permanently disabled. "Permanent disability" means a medically determinable physical or mental impairment that (1) renders you incapable of performing any substantial gainful employment, (2) can be expected to be of long-continued and indefinite duration or result in death, and (3) is evidenced by a certification to this effect by a doctor of medicine approved by IEEE's Executive Director.

Only one Special Circumstances category may be claimed in any year. Automatic renewal is *not* available for the special-circumstance memberships.

Special circumstance discounts are *not* available to Student members, but other discounts are available (see below).

Requests for a Special Circumstances reduction can be made at the time of renewal, except for permanent disability, which has its own process.

To request Special Circumstances dues or if you have any questions, please contact IEEE Member Services by phone at +1 800 678 4333 or online at <https://www.ieee.org/about/contact.html>.

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## Dues Reductions for Students

New and renewing IEEE students and graduate students can save 50% on their membership dues by using the promotion code **FUTURE50** during the online check-out process for [joining or renewing](#) your IEEE membership. Students who recently renewed or joined at full price can reach out to the IEEE Contact Center at: [contactcenter@ieee.org](mailto:contactcenter@ieee.org) and request a credit on future membership dues.



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## Dues Reductions for Recent Grads

Recent graduates receive a 50% discount off IEEE dues the first year after graduation. If eligible, you will [automatically](#) receive the appropriate discount when you renew.



## Regional Calls for Papers and Proposals

### 2022 20<sup>th</sup> IEEE Interregional NEWCAS Conference

The conference offers engineers and researchers in the field of circuits and systems an opportunity to meet scientific and industrial experts, and to learn about and discuss recent developments and advancements. To be held in Québec City, QC.

*Tutorial and Special Sessions Proposals Deadline: Friday, December 17, 2021*

*Full Paper Submission Deadline: Monday, February 7, 2022*

*Conference: Sunday, June 19 to Wednesday, June 22, 2022*

Visit <http://newcas2022.org/> for more info.

### 2022 12<sup>th</sup> Annual IEEE Computing and Communication Workshop and Conference

This virtual conference will provide an opportunity for researchers, educators, and students to discuss and exchange ideas on issues, trends, and developments in Computing and Communication. Co-sponsored by IEEE-USA and IEEE Region 1.

*Full Paper Submission Deadline: Wednesday, December 22, 2021*

*Conference: Wednesday, January 26 to Saturday, January 29, 2022*

Visit <https://ieee-ccwc.org> for more info.

### 2022 31<sup>st</sup> IEEE Microelectronics Design and Test Symposium

MDTS (formerly known as NATW) provides an annual world forum for academy and industry researchers and engineers to discuss latest advances in microelectronics, share their visions in modern microelectronic technologies and foster academy-industry collaboration. The theme will be: Innovation in Microelectronics for AI, Security and New Advances in Computing. Co-sponsored by IEEE Region 1. To be held in Albany, NY.

*Manuscript Submission Deadline: Monday, February 28, 2022*

*Tutorial, Panel, Special Session Proposal Deadline: Wednesday, March 30, 2022*

*Conference: Monday, May 23 to Wednesday, May 25, 2022*

Visit <https://mdts.ieee.org> for more info.

### 2022 IEEE International Symposium on Phased Array Technology

Phased array systems continue to be a rapidly evolving technology with steady advances motivated by the challenges presented to modern military and commercial applications. This symposium will present the most recent advances in phased array technology and present a unique opportunity for members of the international community to interact with colleagues in the field. Hosted by IEEE Boston Section.

*Full Paper Submission Deadline: Saturday, March 12, 2022*

*Conference: Tuesday, October 11 to Friday, October 14, 2022*

Visit <http://www.array2022.org> for more info.

### 2023 IEEE International Ultrasonics Symposium (IUS)

Present the latest developments in the field of ultrasonics, ferroelectrics, and frequency control. Hosted by IEEE Montréal Section.

*Paper Submission Deadline: Saturday, April 1, 2023*

*Conference: Tuesday, September 5 to Friday, September 8, 2023*

Visit [https://conferences.ieee.org/conferences\\_events/conferences/conferencedetails/51837](https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51837) for more info.

**Search IEEE's Call for Papers Database** of over 1,800 conferences for opportunities to submit abstracts and papers in your field of interest by visiting <https://publication-recommender.ieee.org/home>. Provides key data at a glance, including conference titles, locations, submission deadlines, and conference dates. This search tool can also be used to search over 190 periodicals for non-conference publishing opportunities.

## Where to find Us Online

	<p><b>Maine Section</b>            ME Section Homepage:  <a href="https://r1.ieee.org/maine/">https://r1.ieee.org/maine/</a>            ME Section Facebook:  <a href="https://www.facebook.com/ieeeme">https://www.facebook.com/ieeeme</a></p>	 <p><b>Young Professionals</b>            ME Chapter LinkedIn:  <a href="https://www.linkedin.com/groups/8677701/">https://www.linkedin.com/groups/8677701/</a>            YP Facebook:  <a href="https://www.facebook.com/ieeeyp/">https://www.facebook.com/ieeeyp/</a></p>
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 	<p><b>COM/CS Joint Chapter</b>            ME Chapter Homepage:  <a href="https://ewh.ieee.org/r1/maine/com_c/">https://ewh.ieee.org/r1/maine/com_c/</a></p>	  <p><b>PES/IAS Joint Chapter</b>            ME Chapter Homepage:  <a href="https://r1.ieee.org/maine-pesias/">https://r1.ieee.org/maine-pesias/</a>            ME Joint Chapter LinkedIn:  <a href="https://www.linkedin.com/groups/9022969/">https://www.linkedin.com/groups/9022969/</a></p>
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