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INSTRUMENTATION & MEASUREMENT SOCIETY NEWSLETTER

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About the IEEE Instrumentation & Measurement Society Newsletter

Engineers today start their careers with excellent technical skills and subject matter expertise. The IEEE Instrumentation & Measurement (I&M) Newsletter includes time sensitive news useful to its members and highlights content of the current issue of *IEEE Instrumentation & Measurement Magazine*.

Welcome Message from I&M Society President



Greetings!

As the end of the year approaches I look back on it happily. As President of the Instrumentation and Measurement Society, I was privileged to meet many of you in my travels. In addition to the required six trips for IEEE and I&M; AdCom meetings, I attended I2MTC in Houston and MeMeA in Rome. I visited Zagreb and Dubrovnik in preparation for I2MTC2020. I visited Ottawa as a guest of the local section. It's a busy travel schedule, but it was worth it.

What I liked most about these places was the opportunity to visit people: Members, professional associates, business people we work with as a Society. I particularly enjoy my conversations with students and young professionals as they are the future of our Society. I do my best to represent the values of the IEEE I&M; and the value we can provide them.

Recently, we have gotten our IEEE Resource Center operational and through it we offer excellent video tutorials about everything from the basics of measurement to hot topics. We provide an electronic version of our *Instrumentation and Measurement Magazine* through the Resource center as well. Of course, if you are a member you receive the magazine free. I encourage you to visit our [website](#) for more information about value we provide through publications, conferences, and technical committees.

When I consider the number of people I have met who are involved in local chapters and the number of people who are already actively involved with our AdCom, publications, and technical committees, I am astonished! Our Society is a relatively small one with just about 3800 members worldwide, but there are hundreds of active volunteers. The spirit of leadership in our Society is wonderful. Please consider letting us know your leadership interests. You can contact me by email at

If you have not yet joined any of these groups, please consider doing so.

IEEE Instrumentation & Measurement Magazine

The latest issue of [IEEE Instrumentation & Measurement Magazine](#) is in the mail and is retrievable now from IEEE Xplore, the IEEE online digital library.

All IEEE Instrumentation & Measurement Magazine subscribers can access the online edition using their [IEEE Account](#).

Features in our latest articles include:

- ["Cyber security for automatic test equipment"](#)
- ["A new method to estimate expected number of failures for allocating spare parts and labor"](#)
- ["A .NET fluent interface for signal-oriented test programming"](#)
- ["The past and future of electronics testing \[Trends in Future I&M;\]"](#)
- ["Automated configuration of modern ATE"](#)
- ["Multiple fault diagnosis using factored evolutionary algorithms"](#)
- ["The center of a soufflé-metrology in the kitchen \[Basic metrology\]"](#)
- ["Digital radio frequency memory synthetic instrument](#)

j.m.cortner@ieee.org. I look forward to hearing from you and meeting you at future events around the world. Seek me out at I2MTC2019, Auckland, NZ in May. I'll be pleased to chat with you about your involvement in our Society.

Regards,
J. Max Cortner
President of the IEEE Instrumentation and Measurement Society 2018-2019

Benefits of I&M Membership

Our mission statement reads, "The Instrumentation & Measurement Society Administrative Committee strives to provide the most comprehensive and high-quality services to our members and related professionals." The I&M Society has a wide range of activities and benefits to offer our members. These are detailed on our [website](#) highlighting the available services and products.

There also are many opportunities for our members to become involved in volunteer leadership positions that help promote the instrumentation and measurement profession. We invite you to become involved today!

Call for Nominations to IEEE Fellow Class of 2020

IEEE Instrumentation and Measurement Society welcomes nominations to IEEE Fellow elevation.

IEEE Fellow is a distinction reserved to recognize IEEE members whose extraordinary accomplishments in any of the IEEE fields of interest are deemed fitting of this prestigious grade elevation. Indeed, the total number of new IEEE Fellows selected in any one year does not exceed one-tenth of one percent of the total voting IEEE membership.

To be eligible for IEEE Fellow elevation, a nominee must be an IEEE Senior Member or an IEEE Life Member, and to have been a member in good standing in any grade for a period of at least five years preceding January 1st of the year of elevation.

IEEE Fellow nominees are classified into the following four categories:

- Application Engineer/Practitioner
- Educator
- Research Engineer/Scientist
- Technical Leader

The nominator can be any person, including non-IEEE members. The nominator has the responsibility to:

1. Prepare the IEEE Fellow Grade Nomination Form
2. Solicit at least five, but no more than eight, IEEE Fellow references capable of assessing the nominee's contributions
3. Solicit no more than three endorsements capable of supporting the nomination. Any person, including non-IEEE members, may submit an endorsement
4. Identify an IEEE Society/Technical Council whose evaluating committee will assess the nominee's technical qualifications and contributions

The next deadline for submitting IEEE Fellow nominations is **1 March 2019** (*hard deadline, no extensions*).

[enhancing US navy automated test equipment mission"](#)

- ["Interference measurements and failure analysis of patch-clamp laboratory instrumentation for electrophysiology tests"](#)
- ["2016 Faculty course development award: Measurement architectures for electric systems"](#)

IEEE Senior Membership

IEEE Senior Membership is the highest grade for which application may be made and requires experience reflecting professional maturity. Candidates need to be an engineer, scientist, educator, technical executive, or originator in IEEE-designated fields in professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years.

An [application for Senior Membership](#) requires three references unless nominated by a Senior member, and in that case requires two references.

Further information about the IEEE Fellow program is available by clicking [here](#).

2019 IEEE I2MTC - Deadline for Tutorial Proposals: 14 December 2018

2019 IEEE International Instrumentation & Measurement Technology Conference (I2MTC 2019) will be hosting a series of tutorials in the area of instrumentation and measurement, and proposals are invited from the industrial and research community.

We encourage proposals for tutorials dealing with emerging technologies, specialized measurement techniques and applications, and refresher or introductory material of fundamental importance to all instrumentation and measurement professionals.

Both lecture and hands-on style tutorials are considered. Presentations are in English and should properly cite material sources.

It is particularly important that a tutorial's technology and presentation be objective, of a high standard, and free of salesmanship, marketing, or other promotional content.

The Call for Tutorials, Tutorial Proposal Format, and EDAS submission information can be found [here](#).

Deadline for tutorial proposals: 14 December 2018

For more information, contact the Tutorial Chairs: [Octavia A. Dobre](#) and [Eric Matson](#)

Call for Nominations - Outstanding Technical Committee Award

The I&M; Society is currently seeking nominations for the 2018 Outstanding Technical Committee Award. Nominations are due by 31 December 2018. To submit your nomination for the 2018 I&M; Society Outstanding Technical Committee, click here: [Nomination Form](#)

I&M Publications News

Spotlight on Publishing & an Opportunity to help Advertise your Research:

Authors of all published or e-published papers during 2018 in the *IEEE Transactions on Instrumentation and Measurement* (TIM) are welcome to present their TIM paper at I2MTC 2019 in the Special Poster Session "I&M Transaction papers @ I2MTC." This is an excellent opportunity to advertise your research! I2MTC 2018 in Houston was our first time to offer this, and it was a big success. Looking forward, and differing from I2MTC 2018, we have removed the restriction of not including CPEM and I2MTC Special Issue papers. Authors who would like to take advantage of this opportunity will have to register their poster via EDAS. No review is required for the poster, and normal registration rules apply. Deadline to submit: 29 March 2019, 23:59 EST. Please go to [iee-ims.org](#), then navigate to the I2MTC 2019 conference page, and see the TIM@I2MTC item under the "Authors" menu for more details. See you at I2MTC 2019 in

IEEE TIM is the Number 1 Journal in the Area of General Instrumentation and Measurement

We are pleased to announce that according to the 2017 Journal Citation Report, *IEEE Transactions on Instrumentation and Measurement* (TIM) is the number 1 journal in the area of general Instrumentation and Measurement (I&M) with an Impact Factor of 2.794. For more information on TIM, [click here](#).

IEEE TIM Top Cited and Downloaded Papers

To view the top cited and accessed IEEE TIM Papers, click [here](#).

I&M; Student News



Dear Students of Instrumentation and Measurement,

We would like to recognize our Graduate Representative Andrea Angioni for all his hard work for the Society. Andrea has held a vital role in generating student activities, helping address many topics that affect graduate students, and so much more. With Andrea having filled his maximum time as Graduate Student Representative, there was a new election at the most recent Administrative Committee meeting, and we'd like to formally congratulate to Katelyn Brinker for being elected as the 2019 Graduate Student Representative!

The student sensors competition also serves as a way to gain valuable experience within the sensors field, as well as gain a possible way to secure future funding. More information about the competition is available on the society website [here](#). Please be aware of the fast approaching deadlines for entering.

Thank you all for a wonderful 2018 - we cannot wait to see what great things will happen in 2019!

Michael Nacy
I&M; Undergraduate Student Representative

I&M Conference News

In 2018, the Instrumentation and Measurement Society sponsored 21 high-quality conferences worldwide to provide members great chances to meet new friends and colleagues, and to discuss with experts within specified fields. In the coming years,

I&M; will continuously host various high-quality conferences.

I am happy to announce that the Society has decided to sponsor International Conference on Connected Vehicles and Expo (ICCVE 2019). ICCVE is a new application-driven conference with core technology highly aligned with instrumentation and measurement. ICCVE will be held in November in Graz, Austria.

The conference committee has also decided to restart IEEE International Symposium on Robotic and Sensors Environments (ROSE) next year to reflect the rapidly technology development on sensing systems and technologies for robotics and industrial automation, as well as their impact on autonomous robotics and intelligent systems development and applications. ROSE will be held in June in Ottawa, Canada.

Of course, don't forget the traditional conferences, SAS, I2MTC, MeMeA and CIVESA, are all now opening for paper submission. I would like to highlight the Society flagship conference, I2MTC 2019, which will be in Auckland, New Zealand - please don't forget to arrange a trip to explore the magnificent natural beauty of New Zealand after the conference.

There are many nice and high-quality conferences for a variety of technical fields which are under planning; please revisit Society website for updated conference information. Meanwhile, thank you to all supporters, from colleagues and conference organizers, both quantity and quality, as the Society sponsored conferences have continuously improved over the past two years.

Next year, I am happy to introduce Dr. Gourab Sen Gupta from Massey University will succeed to be conference VP of the Society, he is also conference general co-chair of I2MTC 2019. Having a strong passion for service, Dr. Gourab Sen Gupta, an experienced gentleman, will provide better service to all conference organizers and will continue to host more high-quality conferences for Society members. Dr. Gourab Sen Gupta, conference committee members, and I welcome and are ready to discuss all opinions, ideas, and proposals from you to make the Society even better.

Sincerely,
Chi Hung Hwang
VP of Conferences I&M Society

I&M Conference Calendar

We hold numerous conferences throughout the year. Please refer to the I&M [Conference listing](#) to see a full listing.

For more information on any of the conferences, please contact [Chi Hung Hwang](#), VP of Conferences for the I&M Society.

The 2019 IEEE Sensors Applications Symposium (SAS) will be held on 11-13 March 2019 in Sophia Antipolis, France.

Important Dates:

Full Paper Submission Deadline: 23 November 2018

Review Notification: 30 December 2018

Final Paper Submission Deadline: 15 January 2019

For more information, please visit the [conference website](#).



The [2019 IEEE International Instrumentation & Measurement Technology Conference \(I2MTC\)](#) will be held 20-23 May 2019 in Auckland, New Zealand.

Important Date:

Full Paper Submission - 5 November 2018

Review Notification - 21 December 2018

Submission of Revised Paper - 4 January 2019

Final Notification Deadline - 4 February 2019

Final Manuscript Submission for ALL papers - 8 February 2019

For more information, visit the [conference website](#).

2019 IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications (CIVEMSA)

Tianjin, China | 14-16 June 2019



The 13th edition of the [IEEE International Symposium on Robotic and Sensors Environments](#) will take place at the University of Ottawa in Ottawa, Ontario, Canada from 17-18 June 2019.

Important Dates:

Full Paper Submission: 18 February 2019

Acceptance Notification: 15 April 2019

Submission of Final Papers & Author Registration Deadline: 30 April 2019

For more information, visit the [conference website](#).



The [2019 IEEE 5th International Workshop on Metrology for AeroSpace](#)

([MetroAeroSpace](#)) will be held 19-21 June 2019 in Torino, Italy.

Important Dates:

15 December 2018: Special Session Proposal
20 January 2019: Extended Abstract Submission Deadline
20 March 2019: Notification of Acceptance
1 May 2019: Final Paper Submission Deadline

For more information, visit the [conference website](#).



The [2019 IEEE International Symposium on Medical Measurements and Applications \(MeMeA\)](#) will be held on 26-28 June 2019 in Istanbul, Turkey

Important Date:

Full Paper Submission: 4 February 2019
Notification of Accept/Reject: 25 March 2019
Final Manuscript Submission, Copyright Form, Registration: 29 April 2019

For more information, visit the [conference website](#).

2020 IEEE I2MTC - Save the Date

The 2020 IEEE International Instrumentation & Measurement Technology Conference (I2MTC) will be held 25-28 May 2020 in Dubrovnik, Croatia. Stay tuned for more information!

2021 IEEE I2MTC

The location for the **2021 IEEE International Instrumentation & Measurement Technology Conference (I2MTC)** has now been selected! The 2021 Conference will be held in Glasgow, Scotland. Stay tuned for more information!

2022 IEEE I2MTC - Call for Bids The I2MTC Board of Directors is soliciting bids for I2MTC 2022.

Please review carefully the [Bid Document](#) and the [I2MTC Bid Letters of Intent \(LoI\) Information](#). This has all the information needed to complete the bidding process.

Please note the following IMPORTANT DATES regarding the bidding process:

Letters of Intent are due by 31 December 2018.

Those selected to submit formal bids will be contacted and will have until 1 March 2019 to submit the full bid.

If you have any questions about this process, please contact [Jane Buckingham](#).

Have a conference you would like advertised in the I&M Society Newsletter? Contact [Jane Buckingham](#) for details on how to have it included.

I&M; Technical Committee News

Call for Participation in Technical Committees

I&M has 20 different Technical Committees (TC). Our TCs define and implement the technical directions of the Society. As a fundamental element of the Society all members are invited and encouraged to participate in one or more of its technical committees. Please contact **Ruqiang Yan**, VP Technical and Standards Activities, at yanruqiang@xjtu.edu.cn or any member of the Technical and Standards Activities Committee, if you are interested in membership in one or more of our TCs. You can also fill the [application form](#) and send to the chair of your interested TCs. To view the complete list of TCs, visit our [website](#).

IEEE I&M; TC-1: Nondestructive Evaluation and Industrial Inspection (NDE&II)

Announcing the Formation of IEEE IMS TC-1 -- Nondestructive Evaluation and Industrial Inspection (NDE&II)

Technical Committee-1 (TC-1) on "Nondestructive Evaluation and Industrial Inspection (NDE&II;)" was approved by the IEEE Instrumentation and Measurement (I&M;) Society AdCom in May 2018.

The goals of this Committee are to:

- Develop, promote, and support research and development on measurements, instrumentation, and systems for non-destructive evaluation and industrial inspection.
- Promote the integration of cutting-edge technologies into NDT&II; ecosystems for the applications of material characterization and structural health monitoring.
- Develop IEEE standards on NDT&II; to serve industry.
- Become the liaison, facilitate and promote collaboration among the users and developers of different Nondestructive Evaluation and Industrial Inspection (NDE&II;) techniques and relevant I&M; Technical Committees (TC), other IEEE Societies, councils, and OUs.

You're welcome to join the Technical Committee on Nondestructive Evaluation and Industrial Inspection (TC NDE&II) of the IEEE I&M Society.

To join TC NDE&II, contact the TC Chair [Helena Geirinhas Ramos](#) or the TC Co-chair [Zheng Liu](#) with your name, title, position, affiliation, and a self-introduction by email.

Membership in TC NDE&II is open to any interested researcher in Nondestructive Evaluation and Industrial Inspection (NDE&II).

IEEE I&M; TC-25: Medical and Biological Measurements

TC-25 Medical and Biological Measurements filmed the below video in Rome, Italy during the MeMeA 2018 Conference. The Technical Committee designed the video to present its activities to all the I&M; members after the Outstanding TC Award received at I2MTC 2018.

Please [visit our website](#), and if you are working in this field, consider joining the committee and attending the TC sponsored Symposium, which will be in Istanbul, Turkey next year!



Recognition of Technical Achievements and

Innovations - Announcement of Issued Patents

We would like to recognize I&M; Society members' technical achievements and innovations that have resulted in issued patents during the current calendar year. If you have already been issued a patent in 2016 we wish to add it to the list. To do so please fill out the [form here](#) and we will add the information to the website. In addition, if you are issued a patent in the future please use the same link to inform us and we will be happy to add it to the list as we intend to continuously update the information in this list.

Attention Book Authors

Advertise your book on the I&M; website! The Instrumentation and Measurement Society would like to provide a list of book titles written by I&M; authors on the [I&M; website](#). The Society believes that books are an excellent avenue to disseminate the most advanced state-of-the art within and outside of the community and that the website will help to spread the good news about the hard work of the authors. The guidance below will govern which titles will be displayed. We look forward to your contributions! Visit our [website](#) for terms and guidelines.

To see the full list of 2018 I&M Officers, please click [here](#).

To see the full list of I&M AdCom members, please click [here](#).

To see the full list of additional AdCom appointments, please click [here](#).

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