



# INSTRUMENTATION & MEASUREMENT SOCIETY NEWSLETTER

3rd Quarter 2019

## About the IEEE Instrumentation and Measurement Society Newsletter

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

## Welcome Message from I&M Society President



Greetings!

The IEEE Instrumentation and Measurement AdCom has been busy working to insure the continued vitality of your organization. Our publications are hitting new highs in ratings and popularity, so we are planning expansions of both the *Transactions on Instrumentation and Measurement* and the *Instrumentation and Measurement Magazine*.

The 2019 edition of our flagship conference I2MTC (International Instrumentation and Measurement Technical Conference) held last May in Auckland, New Zealand was a great success and we are preparing for next year's conference in Dubrovnik, Croatia to be even bigger and better. In 2019 we are adding a new conference to our portfolio with the co-sponsorship of ICCVE, the International Conference on Connected Vehicles and Expo to be held in Graz, Austria, 4-8 November. I plan to attend and I hope to see you there!

Our Distinguished Lecturer program continues to be very popular for chapters. Our student contest and student papers awards appeal to participants in several conferences, and we are considering expansions of these programs. There are several other programs reaching for students and young professionals, beginning to take root. Look for announcements and opportunities to participate.

As always, feel free to contact me with feedback and ideas!

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

## Benefit of I&M Membership

Our mission statement says, the Instrumentation and 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!

## I&M Membership News

I&M Fellow Member Shervin Shirmohammadi featured as an "IEEE Impact Creator."



IEEE Impact Creators

## I&M Awards

The I&M Society Awards ceremony took place at I2MTC 2019 in Auckland, New Zealand. Please enjoy the recap and award photos

[Click Here for Details](#)

### **Call for 2019 Society Awards (to be presented at I2MTC 2020 in Dubovnic, Croatia)**

The IEEE Instrumentation & Measurement Society (I&M) is soliciting nominations for its Society and other Awards. To view the full detailed listing of each award please visit our [Awards page](#) on the website.

Please refer to the [Call for Award Nominations](#) on the IMS website to see the varying due dates for nominations. Nominators should utilize the forms associated with each award description found on the [website](#).

## I&M Publications News

Publishing is one of the best methods for researchers to spread the good news about their innovative research. The IEEE Transactions on Instrumentation and Measurement (TIM) is dedicated to this goal, and the leadership of TIM and the Instrumentation & Measurement Society's Administrative Committee is working diligently to ensure that submitting papers is as efficient as possible for authors, reviewers, and the editorial team. As such, beginning in 2020, TIM will be supported by new internet-based platform known as PeerTrack™, which is a modern manuscript submission and peer review management website. Allen Press' PeerTrack™ is based on the industry-leading Aries Editorial Manager platform and provides journals, books, reference works and other scholarly publications an intuitive, cloud-based system for managing manuscript submissions and peer review. Consequently, it will be perfect for TIM beginning in

2020 and in the years to come. As always, authors are encouraged to [visit the society website](#) and navigate to the Authors tab for submitting your next manuscript!

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

We are pleased to announce that *IEEE Transactions on Instrumentation and Measurement* (TIM) is the number 1 journal in the area of general Instrumentation and Measurement according to the 2018 Scopus Report, in terms of both CiteScore (3.84) and SJR (0.878). In addition, with an Impact Factor of 3.067, TIM is also in Quartile 1 (Q1) of the Instruments and Instrumentation category according to the 2018 JCR Report. For more information on TIM, [click here!](#)



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### **IEEE TIM Top Cited and Downloaded Papers**

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

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### **IEEE TIM Issues**

[IEEE International Symposium on Measurements and Networking \(M&N\) Special Issue](#): Extended M&N papers registered and presented at the conference must be submitted 29 September - 13 October, 2019.

[IEEE International Symposium on Medical Measurements and Applications \(MeMeA\) Special Issue](#): Extended MeMeA papers registered and presented at the conference can be submitted to this SI. Please check the website for the announcement of the submission window.

[IEEE International Symposium on Robotic and Sensors Environments \(ROSE\) Special Issue](#): Extended Rose M&N papers registered and presented at the conference must be submitted 14-27 October, 2019.

### **I&M Resource Center**



### **Meet the New DLs**

“The Distinguished Lecturer Program (DLP) features highly-qualified expert lecturers whose travel is supported by the IMS to serve as Keynote Speakers for events from premier conferences to chapter events. Each year, DLP evaluations are held in person at I2MTC. This year (as is always the case) featured a set of extremely qualified applicants, and the selection process was challenging. It is our pleasure to introduce Dr. Mihaela Albu and Dr. Andrew Taberner as the 2019 DLP Cohort for a 3-year term. We are pleased to have them join the DLP, so please keep reading for a detailed introduction.”



**Mihaela M. Albu** (M'96, SM'07) is from Craiova, Romania. She graduated from "Politehnica" University of Bucharest (UPB) in 1987 and holds a Ph.D. degree (1998) from the same university. Since 2002 she is a Professor of Electrical Engineering at UPB. Teaching activity presently counts: Advanced Topics in Instrumentation and Measurement (Master); Smart Distribution Grids (Master); Signal Processing (Bachelor) at the Dept. of El. Engineering of UPB; and "Elektrische Meßtechnik"; "Sensoren" at the German Department of UPB.

[Continue Reading](#)



**Andrew Taberner** is a physicist and bioengineer, and Professor with the Auckland Bioengineering Institute at the University of Auckland, New Zealand. From 2002-2008 he was a research scientist and co-manager of the Bioinstrumentation Laboratory at MIT (Boston). Andrew teaches bioinstrumentation and measurement in Biomedical Engineering. His teaching has been recognized by five "Top-teacher" awards, and a 'Sustained Excellence in Teaching' award.

[Continue Reading](#)

## IEEE International "Sensors and Measurement" Student Contest

### IEEE IS&M-SC Third edition - 2019-2020 Announcement and Call for participation

Welcome to the third edition of the IEEE International Sensors and Measurement Systems Student Contest!

This international competition addresses teams of undergraduates, Master and Ph.D. students and aims to stimulate innovative ideas for applications in the area of sensors and measurement systems.

The IEEE International Contest of Sensors and Measurement Systems is jointly promoted and organized by IEEE Instrumentation and Measurement Society (IMS) and IEEE Sensors Council (SC) and is sponsored by STMicroelectronics who will provide the SensorTile.box® kit that will be the common technology platform of the contest.

Those willing to participate will have to submit a proposal, will have to develop

their application at their University laboratories and attend one of the scheduled live demonstration sessions co-located with international conferences in the areas of sensors and instrumentation and measurement. For each demonstration event, two awards will be assigned (1st and 2nd place) for the best "Sensors and Measurement Systems" application. [Read more...](#)

### Winners of the 2019 Contest at I2MTC:



1<sup>st</sup> Place: Jose Ilton de Oliveira Filho  
for the project, *"Smart Tracker and  
Gesture Capturer for People with  
Parkinson's Diseases."*

Presented by Sergio Rapuano, Salvo  
Baglio, and Chi-Hung Hwang



2<sup>nd</sup> Place: Leila Es Sebar, Alessio  
Guillino, Leonardo Iannucci, and  
Luca Lombardo for the project,  
*"KIWI 'Keen Italian Weather  
Investigator'."*

Presented by Sergio Rapuano, Salvo  
Baglio, and Chi-Hung Hwang

## I&M Conference Calendar

We hold numerous workshops throughout the year. Please refer to the Conference Listing to see a full listing.

[Full Conference Listing](#)

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



[Visit Conference Website](#)

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[Visit Conference Website](#)

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[Visit Conference Website](#)

## 2021 IEEE I2MTC

The site 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

The site for the 2022 IEEE International Instrumentation & Measurement Technology Conference (I2MTC) has now been selected! The 2022 Conference will be held in Ottawa, Canada. Stay tuned for more information.



[Visit Conference Website](#)



[Visit Conference Website](#)

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[Click Here to View I&M Technically Co-Sponsored Conferences](#)

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

## I&M Technical Committee News

### Announcing the Formation of IEEE IMS TC-2 -- Impedance Spectroscopy

Technical Committee-2 (TC-2) on Impedance Spectroscopy was approved by the IEEE Instrumentation and Measurement (I&M) Society AdCom in October 2018.

The aim of this technical committee is to serve as a platform for scientists and engineers involved in the field of impedance spectroscopy in order to focus on the potential of this method in measurement and sensor technology:

- to encourage research on subtopics and challenging topics related to impedance spectroscopy
- to promote and facilitate the exchange of knowledge between scientists
- to organize events related to impedance spectroscopy
- to become an official consultative body for industry in the field of power systems
- to promote new standards and guidelines

You're welcome to join the Technical Committee on Impedance Spectroscopy of the IEEE I&M Society.

To join TC-2, contact the TC Chair Olfa Kanoun (Email: [olfa.kanoun@etit.tu-chemnitz.de](mailto:olfa.kanoun@etit.tu-chemnitz.de)) with your name, title, position, affiliation, and a self-introduction by email.

## Call for Participation in Technical Committees

I&M has 20 different Technical Committees (TCs). 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](mailto: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](#).

## 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.

## Publications

### ***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](#).

### **Latest Issues**

[June 2019](#)

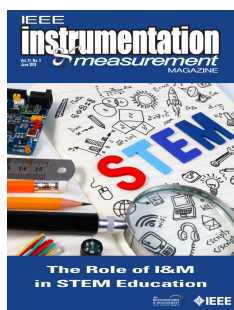
[April 2019](#)

[February 2019](#)

[December 2018](#)

[October 2018](#)

[August 2018](#)



## 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.

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[2019 I&M Officers](#)

[I&M AdCom Members](#)

[Additional AdCom Appointments](#)

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