



Madison Section Newsletter

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September-October 2021

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IEEE Upcoming Meetings

IEEE Madison: "Fundamental Challenges of Low-Power Wide Area networks (LPWAN)"
Thursday, October 21st at 7:00 PM On-Line

[Event Info](#)

Searching for IEEE Meetings

News/Announcements

IEEE-Madison Slack Channel

IEEE Upcoming Meetings

IEEE Madison: "Fundamental Challenges of Low-Power Wide Area networks (LPWAN)"

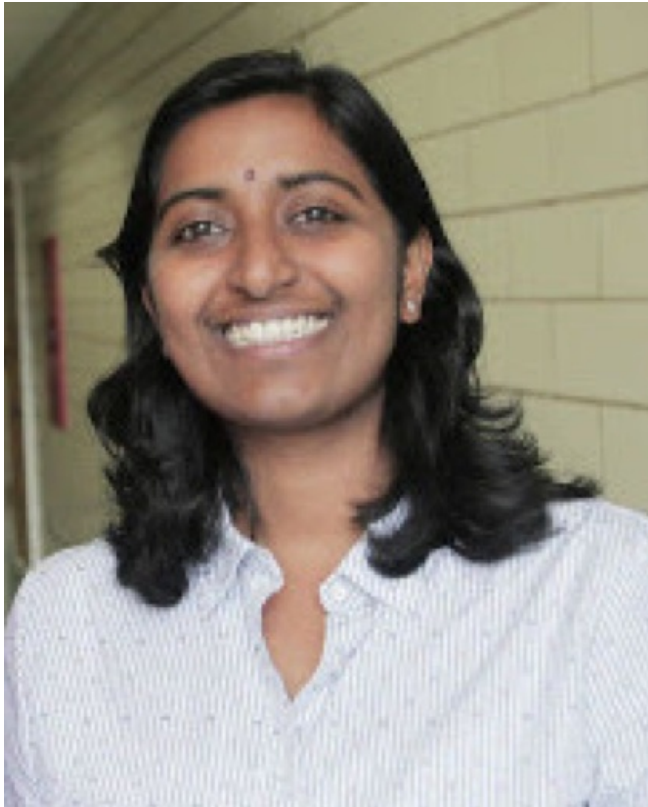


- Thursday, October 21st 7:00 PM to 8:30 PM Central Time
- Virtual Talk
- Location: On-Line (Link will be emailed from your registration information)
- Please Register at this [event page](#).
- Co-Sponsored by IEEE-Madison Engineers in Medicine and Biology Chapter and Life Member Affiliate Group

Talk: Wireless data delivery over long distance is power consuming and challenging for large-scale

deployments. Low-power wide area networks (LPWAN) are increasingly in need to develop wireless solution that satisfy the following requirements (1) Increased battery life, (2) Longer communication range, (3) Large-Scale, and (4) Low-cost. Existing strategies for addressing low-power and long-range do not co-exist efficiently in a large-scale network. In this talk, the fundamental challenges in meeting the above needs of LPWANs will be identified. Cross-layer strategies to address these challenges will be discussed. Comparison to commercially available LPWAN solutions such as LoRa and SigFox will be presented using experimental and simulation results.

Bio: Bhuvana Krishnaswamy is an Assistant Professor in the Department of Electrical and Computer Engineering of the University of Wisconsin-Madison. She obtained her MS and Ph.D. in Electrical and Computer Engineering from Georgia Institute of Technology.



Note: This **Virtual Meeting** is via WebEx and a link will be sent to all valid registrants with a valid email.

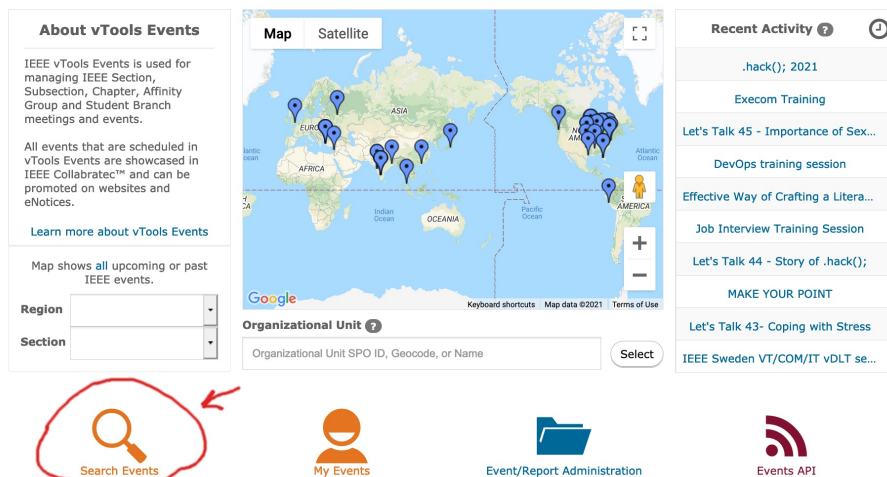
Searching for IEEE Meetings

Since the covid-19 restrictions have once again limited in-person meetings, there will be a continuing number of virtual meetings. It is very likely that they will continue to be held even after all restrictions for in person meetings have lifted. As an IEEE member, you can make use of the "Events" search tools to find virtual meetings of your choice from anywhere in the world.

To search for meetings you might like to attend, click on this link:

<https://events.vtools.ieee.org/>

Once there, click on the "Search" Icon:



About vTools Events

IEEE vTools Events is used for managing IEEE Section, Subsection, Chapter, Affinity Group and Student Branch meetings and events.

All events that are scheduled in vTools Events are showcased in IEEE Collaborate™ and can be promoted on websites and eNotices.

Learn more about vTools Events

Map shows all upcoming or past IEEE events.

Region: [Dropdown]
Section: [Dropdown]

Map: [Map with event pins]
Satellite: [Toggle]
Organizational Unit: [Input field]
[Select]

Recent Activity

- .hack(); 2021
- Execom Training
- Let's Talk 45 - Importance of Sex...
- DevOps training session
- Effective Way of Crafting a Litera...
- Job Interview Training Session
- Let's Talk 44 - Story of .hack();
- MAKE YOUR POINT
- Let's Talk 43- Coping with Stress
- IEEE Sweden VT/COM/IT vDLT se...

Search Events (highlighted with red circle and arrow)
My Events
Event/Report Administration
Events API

You can literally find events from all over the world that you can attend. For more information on how to search, IEEE has developed this short video tutorial:

[Vtools Events Search Tutorial Link](#)

News/Announcements

- **Volunteers:** Consider giving some time to the IEEE Madison community by volunteering. We need volunteers for: YP, ECN, LMAG, PES/IAS, Section Officers, and EMB. In particular we need a volunteer for **Section Chair, Section Secretary** and **Student Activities Chair**. We also are looking for volunteers to start a Madison Section Women in Engineering Affinity Group.
- Congratulations to Professor **BULENT SARLIOGLU** at UW-Madison, the 2021 Recipient of the IEEE PES Cyril Veinott Electromechanical Energy Conversion Award. His award was "For contributions to the design, development, and manufacturing of electric motors and drives for industrial and aerospace applications." For more information, see this [LINK](#).

IEEE-Madison Slack Channel Established and Open to IEEE Members

- **What is Slack?:** Slack is a messaging application that works on most modern computing platforms, including cell phones. Many organizations use slack to quickly connect with people and conduct business. You can share files and create sub-channels for discussion. IEEE-Madison is using the free version of slack that has limited features.
- **Executive Committee Presence:** Members of the IEEE-Madison Executive Committee have joined a Slack Channel and will be available to discuss issues you might bring up.
- **For more:** See this YouTube Video [on Slack](#). Also see this site: [What is Slack?](#)
- **Get an Invitation to Join the IEEE-Madison Slack Channel:** at [Slack Channel](#).
- **Access it here:** [IEEE Madison Slack Channel](#)

IEEE Madison Leadership

- Section Chair - VACANT
- Section Vice Chair - Mike Stemper
- Section Treasurer - Matt Nowick
- Section Secretary - VACANT
- Webmaster - Nate Toth
- PES/IAS Chair - Mike Stemper
- PES/IAS Vice Chair - Dan Ludois
- PES/IAS Secretary/Treasurer- VACANT
- EMB Chapter Chair - Dennis Bahr
- Life Member Affinity Group Chair - San Rotter
- Life Member Affinity Group Vice Chair - Charles Cowie
- ECN Chair - Matt Nowick
- Young Professionals Chair - Thomas Murphy
- Members at Large: Nate Toth, Clark Johnson, Craig Heilman, Dennis Bahr

Membership Upgrades

Those interested in upgrading their IEEE membership level should be aware that the process has been streamlined with much of it on-line. The application process can start with your application as described on line [here](#). You will have to provide the names and IEEE numbers for three Senior Members in your field. The Madison Section Chair (Hugh Schmidt, hfschmidt@wisc.edu) can help, or attend the informal networking portion of the monthly Section meetings to meet the Section Board members and discuss your intention to elevate.

About IEEE

The Institute of Electrical and Electronics Engineers or IEEE (read Eye-Triple-E) is an international non-profit, professional organization dedicated to advancing technology innovation and excellence for the betterment of humanity. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities. It has the most members of any technical professional organization in the world, with more than 300,000 members in around 150 countries. The IEEE consists of 38 societies, organized around specialized technical fields, with more than 300 local organizations that hold regular meetings. Discover what IEEE Member Discounts can offer you. The Member Discounts portfolio consists of insurance products and programs for the home, office and travel, all at excellent group rates and reduced pricing. Visit IEEE Member Discounts to see what's available in your location and enjoy the savings. For more information, please visit: IEEE.ORG.

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