



IEEE FOOTHILL

JULY 2023 MONTHLY NEWSLETTER

IEEE Foothill July ExCom/OpCom Monthly Meeting

Prepared by: Max Cherubin | Proofread by: Prof. Gerald Herder

The IEEE Foothill Section July ExCom/OpCom Hybrid Monthly Meeting was held at DeVry University in Ontario via BlueJeans. The meeting started at precisely 07:10 pm. Although they were some technical issues, we were able to fix them. The chair asked the section if there were any celebrants so the section could share a \$25 gift card with those who were celebrating this month. IEEE will have a Section Congress in August, held in Ontario, Canada, and Prof. Gerald Herder will represent the section. The chair also asked the members to provide alternate email to make sure that emails and eNotices will go through and will not bounce back. He also suggested that we accept corporate sponsors' advertisements in advertising the newsletter that might bring additional income to the section.

Section and Committee

Prof. Gerald Herder, the secretary, reported for Membership Development on behalf of Kim Mosley. We have 884 members, up by nine compared to last month.

While in Social Media and Website. Osman Ceylan is also out for some work-related events. We remind and encourage the officers and members to keep updating their events and activities on our social media pages to promote the section and engage more volunteers.

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Students Chapter

CPP reported by Rohin Sampeur. They are still establishing their new board and planning to register the club in CPP for the upcoming school year.

CSUSB has a new vice-chair Melissa Castro, and they are now ready for the upcoming school year. They also signed up for some events hoping to get more members and have new ideas.

Technical Committees

IMS 2023 was a successful one though Scott Wedge couldn't attend however, Max Cherubin and Prof. Gerald Herder were able to attend and gave a short report. Scott Wedge couldn't attend the IMS 2023 because he was working on a new DARPA program. Currently, DARPA is considered phase zero for a program on next-generation microelectronics manufacturing. This is the MGM program with a focus on 3D heterostructures integrations. It is a very tight integration of all electronics. Three-dimensional packaging and antenna systems are based on some of the talks they've had in their MTT section.

As far as the Circuits and Systems Electronics Devices the big conferences in EDA is going on right now at Mosconi Center in San Francisco. It is the 60th year of the Design Automation Conference; most years, Scott is attending, but unfortunately, he won't be able to participate this year. He also mentioned that they have some paid programs for students attending this conference. The bigger one in the circuits and systems happens annually, typically the first week in February. It is the international Solid-State Circuits and Symposium. ICC is also held at the Marriott Marquis in San Francisco. He reminded the student chapter to reach out to him for help.

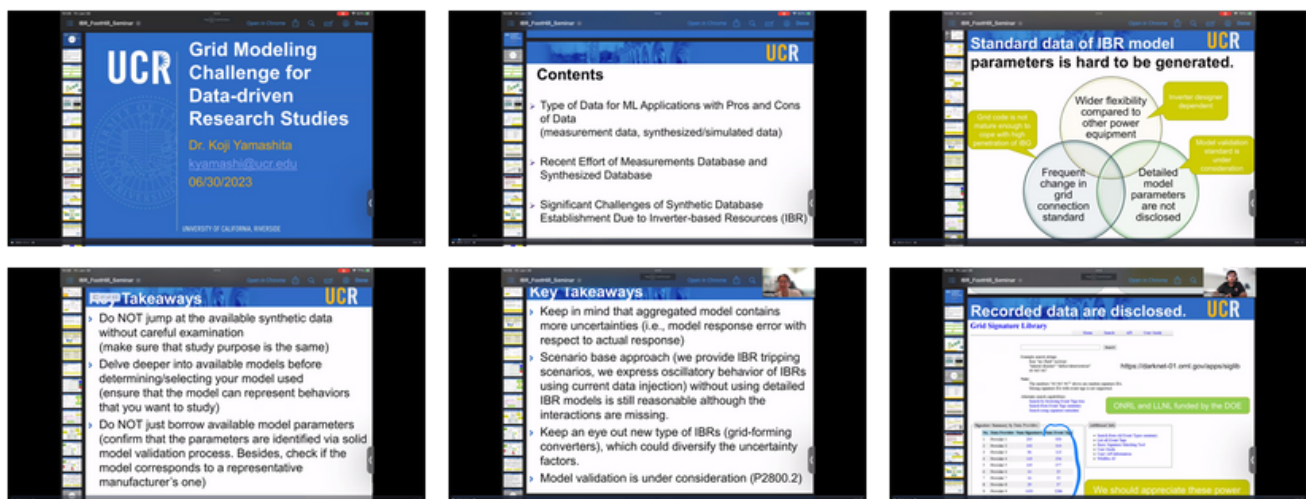
PES vice-chair Dr. Koji Yamashita. They will have some potential speakers. He said he was chairing one international committee five years ago. He was able to contact two Spanish engineers and then Japanese engineers as well. The Spanish engineers can discuss the bridge forming converter, a new, improved technology, and the Japanese engineer can give a presentation related to the demonstration projects on a small isolated island. In small secluded islands, they can quickly achieve 100% renewable energy sources. So the idea is to use a single generic generator driven by water, and then the motor is driven by renewable energy sources and batteries.

Consultants Network had a meeting last July 5th, and they had an overview of the CHERP program. They had Jason Fletcher, who had talked and responded to some questions and gave further updates on what's being done in the plans associated with the solar modules. Cash hopes they will be adding testing by the end of August and that they can start their manufacturing process in their pilot plant in Pomona. The chair, Cash, and other members will have a CHERP tour, which Jason Fletcher mentioned during their last meeting.

Grid Modeling Challenge for Data-driven Research Studies

By: Dr. Koji Yamashita

The IEEE PES Foothill Seminar: Grid Modeling Challenge for Data-Driven Research Studies was held on June 30th, 2023, by Dr. Koji Yamashita from UC Riverside delivered an informative presentation, shedding light on the importance of understanding the knowledge background when machine learning experts rely on synthetic data (simulation results) for their research studies. Despite the relatively small audience, active participation was observed as attendees openly shared their difficulties and concerns regarding using synthetic data with inverter-based resources. The seminar was recorded and can be accessed online. If interested, please get in touch with Dr. Koji Yamashita (kyamashita@ucr.edu) to obtain the link and password. Due to the high interest expressed by the majority of attendees in the new inverter technology, such as the grid forming converter, the upcoming PES Foothill Seminar plans to cover the recently regulated EU grid code that be invited as the speaker to provide insights on this topic.



Upcoming Events:

- **IEEE Foothill August ExCom/OpCom Monthly Meeting**
August 08, 2023
- **IEEE Section Congress**
August 11-13, 2023

Social Media:



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We welcome if you want to become one, just email us at sec.foothill@ieee.org.

