

Meeting Minutes IEEE SPS Synthetic Aperture Technical Working Group

13 April 2023

1. Group members in attendance were Kumar Vijay Mishra, Peter Vouras, Ahmet Elbir, Arpan Chattopadhyay, Naveen K. D. Venkategowda, Shobha Sundar Ram, Wei Liu, Jim Fienup, Ramesh Annavajjala, and Igor Shevkunov.
2. Igor presented an overview of his current research: phase retrieval, lensless imaging, and hyperspectral imaging. Follow-up questions on the presentation were asked by Jim, Ramesh, and Vijay.
3. TWG members presented updates on the special issues (SIs) related to synthetic apertures (SAs) they are leading:
 - Peter
 - J-STARS SI on phase less apertures: Published.
 - T-AP SI on SA antennas: Revise and resubmit decision.
 - Under preparation: SP-M, WC-M (with Arpan and Naveen), and J-SAC (with Arpan and Naveen) on AI/ML for SAs.
 - Ahmet
 - J-STSP and WC-M SIs on near-field signal processing: Published.
 - Comms Standard Magazine SI on SA and ISAC standards: Published.
 - SP-M, SP, and J-STARS SIs: Submitted.
 - Under preparation: T-AES (with Shobha).
 - Shobha
 - Under preparation: T-AES SIs on ISAR and stochastic geometry.
 - Raghu (updated on his behalf by Vijay)
 - J-STARS SI on distributed SAs: Published.
 - Under preparation: SPM SI on SAs.
 - Arpan
 - J-STSP SI: submission-ready.
 - Under preparation: WCM (with Peter and Naveen) and J-SAC (with Peter and Naveen).
 - Suggested: J-SAC/J-STSP on cybersecurity for SA/ISAC.
 - Naveen
 - Under preparation: WCM (with Arpan and Peter) and J-STSP (with Ahmet) SIs.
 - Yu (updated on his behalf by Vijay)
 - J-BHI SI: Submitted.
 - SP-M SI: Under preparation.
 - Igor:
 - J-STSP SI: Submitted.

- Possible: IP and SIAM SIs.
 - Ramesh
 - Will work on proposing the J-STSP/J-SAC SI on modeling.
4. Discussion on annual workshop on SAs: Vijay and Peter will meet with Aly to discuss the proposal further.
 5. Discussion on 2nd free and virtual mini-workshop: The members decided that it will be more appropriate to discuss the planning for this mini-workshop after the status of the annual workshop is finalized. The annual workshop is to be tentatively held in September/October. The ICASSP workshop is in June. Therefore, it may not be very productive to have a mini-workshop so close to ICASSP and annual workshops. In case the annual workshop is approved, then the TWG will organize only one mini-workshop per year in spring.
 6. Peter provided SASC updates:
 - Collaboration initiated with EMBS on new working groups related to MRI and ultrasound.
 - New PARs to be initiated on ISAC related standards.
 7. Vijay provided SASC updates:
 - Radar study group became Radar Working Group.
 - The multi-channel SAR sub-group is now under consideration to become a working group.
 8. Vijay brought up the proposal by Yu Rong on organizing SA-TWG webinars. Wei asked about the difference between the webinars and mini-workshop talks. Peter suggested that the webinars are a good platform for detailed 1-hour talks while the workshop talks are limited to only 20 minutes. The members also decided that the workshop planning should be left to a sub-committee within the group. Further, the speakers should be selected based on a mix of volunteers, online applicants, and invited speakers. Vijay will follow-up with the SAM-TC Chair and SPS President on necessary approvals.
 9. New business: Ahmet asked the interested members to contribute papers to the special session on near-field SP he is co-organizing with Vijay at the 2023 CAMSAP in Costa Rica.
 10. Our next meeting will be organized as the hybrid (in-person & virtual) meeting at the 2023 ICASSP in Rhodes, Greece. It will be co-chaired onsite by Peter and online by Vijay. The in-person ICASSP meeting will be held in the Sheraton Kamiros. Meeting day/times are as follows:
 - Greece/Turkey time: Wednesday, **June 7 at 12:00 pm - 1:30 pm**
 - US EST: Wednesday, **June 7 at 5:00 pm - 6:30 pm**
 - India time: Wednesday, **June 7 at 2:30 pm - 4:00 pm**
 - Sweden time: Wednesday, **June 7 at 11:00 am – 12:30 pm.**