



# IEEE Aerospace Electronic Systems Short Course Program

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- ▶ Website refresh
  - All text updated
  - Short course and budget guides updated and available for download
  
- ▶ Articulation of different short courses
  - In-person/hybrid course run at a public venue, open to everyone
  - Virtual course open to everyone - more attractive for chapters with less money.
  - Industry focused short course, run for a specific company.
  
- ▶ Contacted distinguished lecturers – resulted in 5 new short courses.
  - Deep Learning for Radar Target Recognition, Uttam Kumar Majumder
  - Cognitive Electronic Warfare: An AI Approach, Karen Haigh
  - Foliage Penetration Radar, Mark E. Davis
  - Introduction to Track-to-Track Fusion and the Distributed Kalman Filter, Felix Govaers
  - Passive Radars - New Frontiers and Challenges, Krzysztof Kulpa

## ▶ Communication

- Contacted all AESS chapters
  - Some interest in running courses, but some expected the AESS to run the course for them!
  - Further communication required to explain how to setup and run a course.
- Met with AESS industry group to explore ideas for running industry based courses.
- Amanda has done a great job promoting short courses on social media
- Short course survey in South Australia with 21 respondents. Top two courses include:
  - Radar Fundamentals, Maria Sabrina Greco
  - Introduction to Systems Engineering, Robert Rassa

## ▶ Upcoming short courses

- Sabrina Greco – Radar Fundamentals, Nov 2022. Running in both Brisbane and Adelaide, Australia
- Subrata Das – Machine and Deep Learning for Data Fusion – Columbia section (details TBC)

- ▶ Ideas going forward
  - Easier and cheaper to give courses with local presenters
  - Rather than wait for AESS chapters to contact presenters, encourage presenters to reach out to local AESS chapters and/or industry directly
  - Work with AESS industry group to test out this newer working model
  - Further outreach to AESS chapters – talk at the region summits
  
- ▶ 3 year goal - run at least one short course in each IEEE region.
  - Online training session for each region
  - AESS sponsored lecture series to provide a few half day short-course length courses
    - Follow the NATO lecture series model – visit 3-4 locations with a group of presenters
    - Suggestion is for 4 half-day short-courses / tutorials
    - Currently no short courses on drone applications, cyber security, distributed remote sensing.
    - Some Distinguished lecturers for drone applications – Vince Socci, Hongbo Sun.
    - Call for interest from AESS presenters or could extend to broader AESS members – need to decide scope
    - Call for interest from local AESS chapters to host, two from R9 and two from R10.