



Lorenzo Lo Monte, VP Education

October 18-19, 2019

Cologne, Germany

Education Committee

Yonina Eldar



Fredrik Gustafsson



Lance Kaplan



Michael Wicks



Jason Williams



Lorenzo Lo Monte



DISTINGUISHED LECTURES

AESS Distinguished Lecturer Program



Distinguished Lectures

- 26 confirmed so far
- Much less than previous years (78)
- ... but in previous years many DL were speeches at conferences
 - If we remove conferences speeches, number of DL is comparable to last year

2019	1	6Lo Monte
2019	3	9Socci
2019	3	9Socci
2019	3	9Socci
2019	3	21Farina
2019	3	21Farina
2019	3	21Farina
2019	4	13Lo Monte
2019	5	3Daum
2019	5	3Bar Shalom
2019	5	4Socci
2019	5	4Socci
2019	3	20Bar Shalom
2019	4	9Bar Shalom
2019	4	9Bar Shalom
2019	4	4Wicks
2019	4	30Willet
2019	8	12Bar Shalom
2019	8	12Bar Shalom
2019	9	4Qu
2019	9	10Schmidt
2019	9	16Schmidt
2019	10	21Schmidt
2019	10	18Davis
2019	10	18Davis

Increasing Diversity in DL: Active Outreach

Chapter	Host	DL
Colombia	Giovanna Ramírez Ruiz giovis.941@gmail.com	Zhihua Qu
Colombia	Giovanna Ramírez Ruiz giovis.941@gmail.com	George T. Schmidt
Bolivia	Avid Roman-Gonzalez avid.roman-gonzalez@ieee.org	Kathleen Kramer
Guadalajara	Luis Valtierra luis.valtierra@outlook.com	
Singapore	Lu Yilong, EYLU@ntu.edu.sg	Athina Petropulu Jade Morton Hugh D. Griffiths Michael C. Wicks
Bolivia	Paola Escobari Vargas	Lorenzo Lo Monte
Denver	Nagaraj Shivaramaiah nagarajcs@ieee.org	Short Course
Florida West Coast	Jim Anderson jim.anderson@ieee.org	Kathleen Kramer
Manitoba	Dustin Isleifson Dustin.Isleifson@umanitoba.ca	Kathleen Kramer

Distinguished Lectures and Tutorial Recognition

Continuing Education Unit (CEU) - Meets our strict CEU guidelines

In order for a participant to receive a CEU certificate, the course must consist of:

- *Assessment*: case study, class assignment, class quiz/test or facilitated questions and answers
- *Instructional Method*: lecture, class discussion, panel discussion, problem solving
- *Feedback*: evaluation form

Professional Development Hour (PDH) - meets our comprehensive PDH guidelines

In order for a participant to receive a PDH certificate, the course must consist of:

- *Feedback*: evaluation form
 - can be offered by watching a webinar, site tour, research, etc.

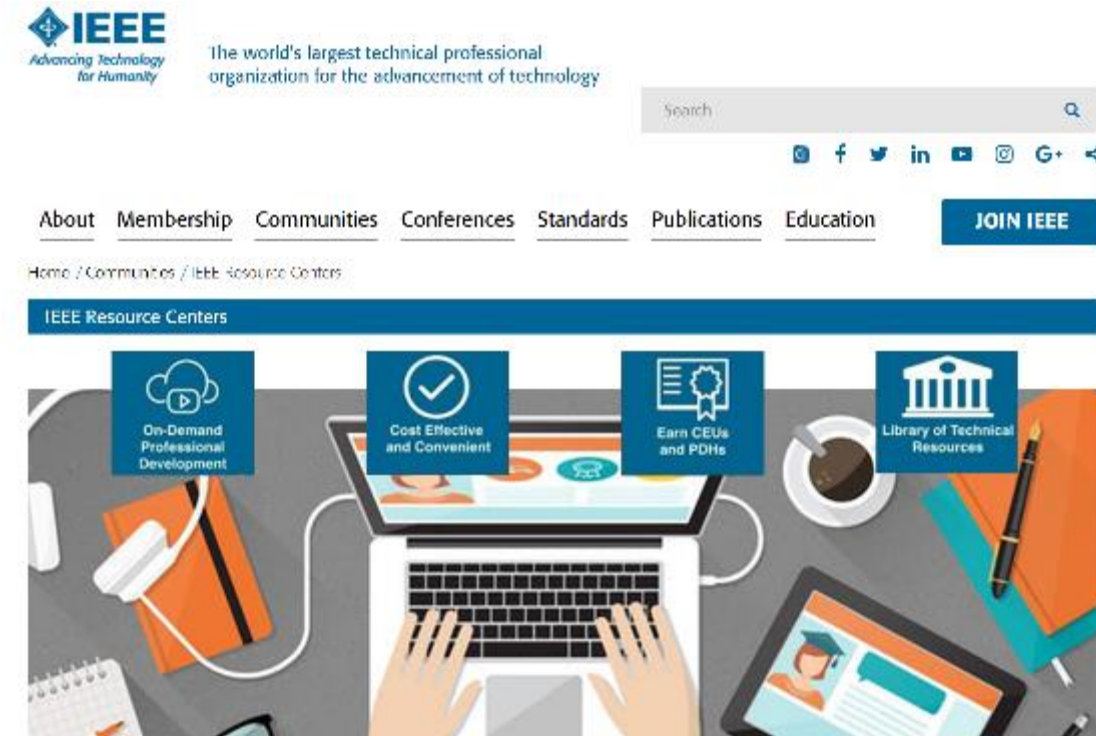


AESS RESOURCE CENTER

Resource Center

The Resource Center is now an IEEE-wide activity, where many society are heavily investing.

AESS started the lead, but we need to add more useful information



Resource Center: What can we add?

- conference presentation videos
- conference presentation slides
- **tutorials**
- webinars
- **short courses**
- keynote presentations
- technical panel sessions
- **interviews**
- **Distinguished Lectures**
- **Technical Data**

Resource Center: Recent Activities

- Added Three Tutorials from Fusion
- Added 40-hour Lecture from Yaakov Bar Shalom
- Added two lectures from Roy Streit
- Added 1 Tutorial from Radar 2018
- Added 8 Slides from Radar Summer School

Resource Center: Over 80 Lectures!

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

AESS IEEE Aerospace & Electronic Systems Society

About AESS | Conferences | Education | Awards | Member Services | Publications | Tech Ops | Industry Relations

AESS Education
 Resource Center
 Distinguished Lectures
 Short Courses
 Education Awards
 Education Committee

Education ▾ Publications ▾ Membership ▾

1 Video Tutorials
 2 Slides for Video Tutorials
 Fusion 2018
 Passive Radar 2018
 2018 IEEE Radar Conference
 2019 IEEE Radar Conference
 Bar Shalom Tracking Lectures

2018
 Analytic Combinatorics for Multi Object Tracking and Higher Level Fusion Part 1
 22 Oct 2018

2018
 Analytic Combinatorics for Multi Object Tracking and Higher Level Fusion Part 2
 22 Oct 2018

2016
 Bistatic and Multistatic Radar Part 1
 1 Jan 2016

- Radar System Performance Modeling Part 1
- Radar System Performance Modeling Part 2
- Radar System Performance Modeling Part 3
- Radar System Performance Modeling Part 4
- Radar System Performance Modeling Part 5
- IEEE Stealth Update
- Fundamental Concepts in Radar Signal Processing - Introduction
- Fundamental Concepts in Signal Processing Part 1
- Fundamental Concepts in Signal Processing Part 2
- Fundamental Concepts in Signal Processing Part 3
- GPS/GNSS + Inertial Navigation (VIDEO MISSING)
- Sea Clutter Scattering Part 1
- Sea Clutter Scattering Part 2
- Sea Clutter Scattering Part 3
- Sea Clutter Scattering Part 4
- Sea Clutter Scattering Part 5
- Sea Clutter Scattering Part 6
- Sea Clutter Scattering Part 7
- Sea Clutter Scattering, the K Distribution, and Radar Performance
- High Level Information Fusion Management and Systems Design
- Bistatic and Multistatic Radar Part 1
- Bistatic and Multistatic Radar Part 2
- Bistatic and Multistatic Radar Part 3
- Passive Radar Tutorial Part 1
- Passive Radar Tutorial Part 2
- Multitarget Tracking and Multisensor Information Fusion
- Multisensor Multitarget Tracker Fusion Engine Development and Performance Evaluation for Realistic Scenarios
- An Introduction to Track-to-Track Fusion and the Distributed Kalman Filter
- Analytic Combinatorics for Multi Object Tracking and Higher Level Fusion - Part 1
- Analytic Combinatorics for Multi Object Tracking and Higher Level Fusion - Part 2
- Affordable Ways to Learn Radar
- Fundamental Concepts in Radar
- Radar Data Fusion
- Radar Clutter
- Radar Signal Processing
- RF Tomography
- Radar Imaging
- Radar Waveforms

Process to Standardize Tutorial Recording

Create **Conference Catalyst** Recording Capability



Offer Recording Option to AESS Conferences, Tutorials and DL



Increase Number of Offerings in the Resource Center

EDUCATIONAL AWARDS

Robert T Hill Award: Updates

- Thanks to Judy's advertisements...
- 2 Full Submissions so far!
- X Partial Submissions
 - By far the highest number of submissions!!
- Deadline Oct 31st

Robert T Hill Award: AESS Membership

- Currently, AESS Website states that the Ph.D. Student must be AESS Member in good standing for at least 1 year

The AESS is currently seeking nominations for the 2019 Robert T. Hill award intended to recognize an AES society member who was awarded the Ph.D. degree based upon a required dissertation in the past 24 months. To be eligible, a candidate must be a recent graduate of an accredited university that requires a dissertation to receive a Ph.D. degree. The nominee should have been an IEEE AESS member or student member in good standing for at least one year at the time of nomination. Preferentially, the nominee should have been awarded the Ph.D. degree in the last 24 months prior to the nomination. Nominations are typically made by a dissertation advisor and are submitted using the nomination form found provided below. A 200-word summary of the significance of the dissertation and two additional endorsing references will be required. For a nomination form or more information, please contact:

- Official application form does NOT contain such statement (it was removed), and it has not been enforced

Robert T Hill Award: AESS Membership

- MOTION: Recommend Changing the sentence to:
- “The nominee should be an AESS member or student member and in good standing at the time of submission of the application package”

Education Awards: Discrepancies

- Robert T Hill Best Dissertation Awards
 - Commemorative Plaque
 - \$1,000 Honorarium
- IEEE AESS Engineering Scholarship
 - For Undergraduates and Graduate Students
 - \$5,000 Award

Definition of the Engineering Scholarship Award

- **Selection/Basis for Judging:** Evaluations will be based on the application and stated financial need. The application shall include an essay on why these fields of study are important and how the applicant could have impact in these fields. At least 3 letters of recommendation shall be provided, two of which shall be from current or former university professors who taught the applicant or know him or her personally.

NEW INITIATIVE

New Initiative: Faculty Course Development Award

- Amount: \$10,000
- Deadline: February 1st
- The Faculty Course Development Award is to support and encourage faculty members to develop a new course with specific focus on AESS, taught in an accredited (in accordance to the accepted rules of the country of applicant) engineering/physics/science curriculum

How to use the funding

- Option 1: Directly to the Professor as cash reward
 - Course must have been already taught. A minimum number of attendees must be set. A survey must be conducted. Slides and course material must be submitted as a proof
- Option 2: Fund must be spent to purchase course material
 - Course will be developed with the funding that will be disbursed.

Initiative: Create a MOOC through the IEEE Learning Network

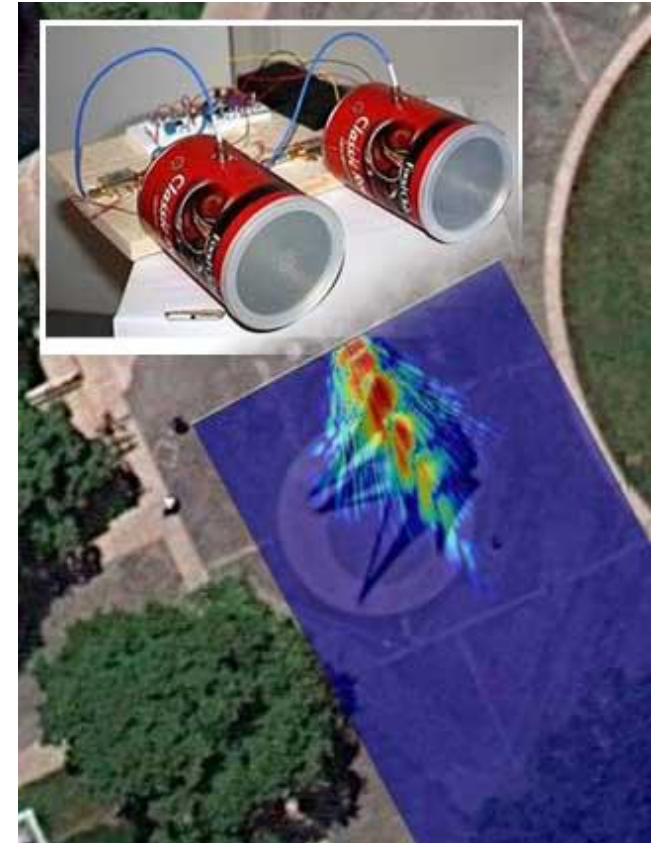
- RSP (Stralka/Charlish) is leading this effort
- IEEE rate = \$10k / hour of content developed
 - discount for multi-hour programs
- Hosting is \$4/person in blocks of 250 people
- Material could be:
 - Bob O'Donnel (MIT)
 - Radar Summer School



FUNDING REQUESTS

Radar Summer School

- Started in 2017
- AESS has historically funded this event
- RSS is requesting \$3,000 to keep tuition low
- RSS is expecting 100 students
- RSS will follow with the YP Social Event



Funding Request: Rising Stars 2020

- Jan 3-5
- Las Vegas
- \$ 1,000
- We already funded them \$1,000 for the past 3 years

