Tutorial Sessions
All 18 Tutorials held Monday April 27, 2020 at Conference Hotel: Bethesda North Marriott Hotel & Conference Center, 5701 Marinelli Road, Rockville, Maryland 20852 USA, Phone: +1 301-822-9200
Refreshments served all day, but meals are not provided. Printed lecture notes are provided.
***Students may register only for 1 tutorial per Session, and a maximum of 3 tutorials total. ***

# Session One: 08:00-12:00 (8am-12pm)

1. **Introduction to Airborne Ground-Moving Target Indicator (GMTI) Radar:** Armin Doerry
2. **Electronic Scanned Array (ESA) Design:** John S. Williams
3. **Radar Systems Prototyping:** Lorenzo Lo Monte
4. **Radar Tracking, State Estimation and Association:** Chaw-Bing Chang, Keh-Ping Dunn
5. **Passive radar – from target detection to imaging:** Mateusz Malanowski, Piotr Samczyński, Krzysztof Kulpa
6. **Recent Developments in Maritime Radar Detection:** Luke Rosenberg, Simon Watts

Session Two: 13:00-17:00 (1pm-5pm)

7. **Adaptive Array Antennas: Principles and Applications:** Randy Haupt, Mark Leifer
8. **Introduction to Automotive Radars:** Igal Bilik
9. **Advanced Radar Detection and Applications:** Scott Goldstein, Mike Picciolo, Wil Myrick
10. **Advanced Inverse Synthetic Aperture Radar Imaging:** Marco Martorella
11. **Ultra Wide Band Surveillance Radar:** Mark Davis
12. **Noise radar technology and noise waveform design – prospective solution for future SISO and MIMO systems:** Krzysztof Kulpa, Mateusz Malanowski

Session Three: 18:00-22:00 (6pm-10pm)

13. **Over-the-Horizon Radar – Fundamental Principles, Adaptive Processing and Emerging Applications:** Giuseppe (Joe) Fabrizio
14. **Optimization Theory in Advanced Radar Signal Processing:** Augusto Aubry, Antonio De Maio, Vincenzo Carotenuto
15. **Bistatic and Multistatic Radar Imaging:** Marco Martorella, Brian Rigling
16. **Deep Learning for Radar Automatic Target Recognition (ATR):** Uttam Majumder, Erik Blasch, David Garren
17. **Joint Automotive MIMO-Radar-MIMO-Communications Signal Processing:** Kumar Vijay Mishra, Bhavani Shankar
18. **Air and Maritime Target Recognition: Dream, Theory & Practice:** Willie Nel, Jacques Cilliers