

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II

**DOTTORATO DI RICERCA / PhD PROGRAM IN
INFORMATION TECHNOLOGY AND ELECTRICAL ENGINEERING**

Seminar announcement

Monday 9 November 2026, Time: 11:00 - 12:00

Room “SALA RIUNIONI (EX SOFTEL)”, Building 3, First Floor.

Via Claudio, 21 – NAPOLI



Prof. Luke Rosenberg

University of Adelaide, Australia

The importance of sea-clutter modelling

Abstract: There is a large body of literature on sea-clutter analysis and modelling. However, these are mostly from radars with coarse resolution with data collected at low grazing angles. Newer maritime airborne radars which operate at higher resolutions and from higher grazing angles will therefore require newer models to characterise the sea-clutter. The Defence Science and Technology Group (DSTG) Ingara medium

grazing angle dataset was collected for this purpose and has resulted in a significant amount of work both internally at the DSTG and through the NATO SET-185 group on high grazing angle sea-clutter. This talk discusses the modelling of this data set and its application to realistic sea-clutter simulation and performance prediction modelling.

Lecturer short bio: *Dr. Rosenberg received a Bachelor's degree in electrical and electronic engineering, a Master's degree in signal and information processing, and a Ph.D. from the University of Adelaide, Australia. He is the team lead for RF Analysis and Sensemaking at Lockheed Martin Australia, Advanced Systems & Technology and an adjunct Associate Professor with the University of Adelaide. Prior to this, he worked at the Defence Science and Technology Group Australia as a research specialist in maritime radar.*

Dr. Rosenberg has received a number of best paper awards, the Defence Science and Technology Achievement Award for Science and Engineering Excellence in 2016 and the IEEE AESS Fred Nathanson award in 2018 for 'Fundamental Experimental and Theoretical Work in Characterizing Radar Sea Clutter'. He is the Vice President Publications for the AESS board of governors and a member of the radar systems panel. He is a distinguished lecturer for the AESS, senior editor for the Radar Systems area in the Transactions of Aerospace and Electronic Systems, and past chair of the IEEE South Australian Section. He has over 190 publications including a book on Radar Sea Clutter: Modelling and Detection. He is a Lockheed Martin Associate Fellow and an IEEE Fellow for contributions to maritime radar.

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