## Subject Areas RADAR2024

Antenna	
	∟ Antenna and array design
	$\sqcup$ Array processing
	∟ Beamforming and MIMO
	$\sqcup$ Digital front-end, new AESA technology
Applications	
	ightarrow Automotive radar
	∟ Biological/Medical sensing
	∟ Over-The-Horizon
	∟ Passive and multistatic radar
	∟ Weather radar
Phenomenology	
	$\Box$ Clutter suppression
	$\Box$ Earth observation
	∟ Environment modeling & virtual qualification
	$\square$ Ground/Foliage penetration
	□ Propagation modeling
	$\Box$ RCS characterization, simulation, and modeling
Radar Signal Processing and Method	
Radai Signai Flocessing and Method	S ∟ Advances in signal processing for radar
	$\square$ Advances in signal processing for radar $\square$ AI/ML applied to radar
	$\square$ ATR/NCTR and Classification
	∟ Cognitive radar
	∟ Compressive sensing and sparse representation
	$\Box$ Detection and Estimation
	∟ Dual-function communication-radar systems
	∟ Interference cancellation
	∟ MIMO radar processing
	$\sqcup$ Radar imaging, advances in SAR/ISAR
	$\sqcup$ Radar tracking
	$\sqcup$ Spectrum management and waveform design
	$\sqcup$ Tracking and multisensor fusion, meta-sensors
Radar Systems	
	$\sqcup$ Advanced components for radar systems
	$\Box$ Counter-UAV
	∟ Future trends in radar systems
	$\sqcup$ MMW, sub-MMW radar, and short-range radars
	∟ Onboard UAV systems
	∟ Software Defined Radar
	∟ Space-based radar systems
	∟ Ultrawideband systems
Special Sessions	
	$\sqcup$ Advanced SAR processing techniques for security
	and safety applications
	$\sqcup$ AI for radar
	∟ Compact SAR and UAV platform
	∟ Emerging trends in ML for polarimetric and/or
	interferometric SAR imaging
	∟ History of radar ∟ Multistatic radar and radar networks
	$\square$ SONDRA - France-Singapore Lab 20 years of
	collaboration in radar