

# PROGRAM AT A GLANCE

MAY 6-10, 2024 | HILTON DENVER CITY CENTER | DENVER, COLORADO

# RadarConf'24

2024 IEEE RADAR CONFERENCE

## SATURDAY, MAY 4, 2024

### Radar Boot Camp

08:45-09:00	<b>OPENING REMARKS</b> Christ Richmond Penrose 1
09:00-10:00	<b>HISTORY OF RADAR</b> Alfonso Farina Penrose 1
10:00-10:30	<b>COFFEE BREAK</b> Penrose 1
10:30-11:30	<b>RADAR RANGE EQUATION</b> Justin Metcalf Penrose 1
11:30-13:00	<b>BOXED LUNCH</b> Penrose 1
13:00-14:00	<b>INTRODUCTION TO RADAR SYSTEMS</b> Justin Metcalf Penrose 1
14:00-15:00	<b>ESTIMATION AND DETECTION</b> Christ Richmond Penrose 1
15:00-15:30	<b>COFFEE BREAK</b> Penrose 1
15:30-16:30	<b>ARRAY SIGNAL PROCESSING</b> David Schwartzman Penrose 1
16:30-17:00	<b>LOW COST GNU RADIO RADAR DEMO</b> Shane Flandermeyer Penrose 1

## SUNDAY, MAY 5, 2024

### Radar Boot Camp

09:00-10:00	<b>STAP</b> Mike Picciolo and Scott Goldstein Penrose 1
10:00-11:00	<b>RADAR IMAGING</b> Elisa Giusti Penrose 1
11:00-11:30	<b>COFFEE BREAK</b> Penrose 1
11:30-12:30	<b>TRACKING</b> Kristine Bell Penrose 1
12:30-14:00	<b>BOXED LUNCH</b> Penrose 1
14:00-15:00	<b>HANDS ON LAB EXERCISES I: PHASED ARRAY BEAMFORMING</b> Matt Ritchie /Jon Kraft, AD Penrose 1
15:00-15:30	<b>COFFEE BREAK</b> Penrose 1
15:30-16:30	<b>HANDS ON LAB EXERCISES II: RADAR SIGNAL PROCESSING</b> Matt Ritchie /Jon Kraft, AD Penrose 1

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## MONDAY, MAY 6, 2024

TUTORIALS						
08:00-12:00	Introduction to Synthetic Aperture Radar COLORADO F	Introduction to Passive Radar COLORADO G	Introduction to Electronic Warfare COLORADO H	Micro-Doppler Signatures: Principles, Analysis & Applications COLORADO I	Hands On Phased Array Beamforming Workshop MATTIE SILKS	An Overview of Practical Spectrum Sharing Techniques for Radar and Communications COLORADO J
10:00-10:30	Coffee Break Hall outside Colorado F-J					
12:00-13:00	Lunch Penrose 2					
TUTORIALS						
13:00-17:00	Space-based Synthetic Aperture Radar (SAR): Principles, Imaging Techniques and Future Developments COLORADO F	Advanced Techniques and Applications for Passive Radar COLORADO G	Advanced Radar Detection and Capabilities COLORADO H	Systematic Filter Design for Tracking Maneuvering Targets: Getting Guaranteed Performance Out of Your Sensors COLORADO I	Hands On Adaptive Digital Beamforming Workshop MATTIE SILKS	Bistatic and Multistatic Radar Imaging COLORADO J
15:00-15:30	Coffee Break Hall outside Colorado F-J					
14:30-17:00	Student Paper Competition HOMESTEAD					
17:15-19:00	Radar Challenge COLORADO F					
18:30-20:30	IEEE AESS Young Professionals (YP) Network Colorado/Denver Ballroom Pre-function					

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## TUESDAY, MAY 7, 2024

07:00-08:30	SPEAKER BREAKFAST COLORADO F-J			
08:00-17:00	EXHIBIT HALL COLORADO A-E			
08:00-08:30	GENERAL & TECHNICAL CHAIR'S OPENING REMARKS DENVER BALLROOM			
08:30-09:15	PLENARY 1 - DR. ALBERTO MOREIRA DENVER BALLROOM			
09:15-10:00	PLENARY 2 - MR. FRANK SANDERS DENVER BALLROOM			
10:00-10:30	COFFEE BREAK COLORADO A-E			
10:30-11:15	PLENARY 3 - DR. TOM DRISCOLL DENVER BALLROOM			
11:15-12:00	INDUSTRY PANEL DENVER BALLROOM			
12:00-13:10	LUNCH COLORADO F-J		TAES LUNCH (CLOSED) INDEPENDENCE	
13:10-14:50	CLASSIFICATION DENVER BALLROOM 4	SPECTRUM SHARING DENVER BALLROOM 3	TRACKING DENVER BALLROOM 5-6	ARRAY PROCESSING FOR AUTOMOTIVE RADAR DENVER BALLROOM 2-1
14:50-15:20	COFFEE BREAK COLORADO A-E			
15:20-17:00	HUMAN PRESENCE & ACTIVITIES MONITORING (INVITED) DENVER BALLROOM 4	SAR IMAGE FORMATION DENVER BALLROOM 3	WAVEFORM DESIGN DENVER BALLROOM 5-6	ECCM AND INTERFERENCE CANCELLATION DENVER BALLROOM 2-1
18:00-20:00	EXHIBITOR RECEPTION COLORADO A-E			
19:00	RSP PANEL DINNER (CLOSED) PENROSE 2			

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## WEDNESDAY, MAY 8, 2024

07:00-08:30	SPEAKER BREAKFAST COLORADO F-J		
08:00-17:00	EXHIBIT HALL COLORADO A-E		
08:00-09:40	INTEGRATED RF SENSING AND COMMUNICATIONS (INVITED) DENVER BALLROOM 4	SDR PLATFORMS DENVER BALLROOM 3	RADAR RESOURCE MANAGEMENT DENVER BALLROOM 2-1
09:40-10:50	COFFEE BREAK COLORADO A-E	POSTER 1 DENVER BALLROOM 5-6	
10:50-11:50	INTEGRATED RF SENSING AND COMMUNICATIONS 2 (INVITED) DENVER BALLROOM 4	DETECTION DENVER BALLROOM 3	COMPONENT & SUBSYSTEM TECHNOLOGIES DENVER BALLROOM 2-1
11:50-12:50	LUNCH COLORADO F-J	DEI LUNCH PENROSE	
12:50-14:10	BEYOND LINEAR PROCESSING (BLIP) (INVITED) DENVER BALLROOM 4	PASSIVE RADAR DENVER BALLROOM 3	ANTENNA ARRAYS DENVER BALLROOM 2-1
14:10-15:20	POSTER 2 DENVER BALLROOM 5-6	COFFEE BREAK COLORADO A-E	
15:20-17:00	HISTORY OF RADAR (INVITED) DENVER BALLROOM 4	DIGITAL BEAMFORMING DENVER BALLROOM 3	COGNITIVE RADAR DENVER BALLROOM 2-1
18:00-19:00	PRE-DINNER RECEPTION PREFUNCTION SPACE		
19:00-22:00	BANQUET DINNER COLORADO F-J	BANQUET DINNER (OVERFLOW) PENROSE	

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## THURSDAY, MAY 9, 2024

07:00-08:30	SPEAKER BREAKFAST COLORADO F-J		
08:00-17:00	EXHIBIT HALL COLORADO A-E		
08:00-09:40	ON AI/ML FOR RADAR (INVITED) DENVER BALLROOM 4	LOCALIZATION AND AOA ESTIMATION DENVER BALLROOM 3	ESTIMATION DENVER BALLROOM 2-1
09:40-10:50	COFFEE BREAK COLORADO A-E	POSTER 3 DENVER BALLROOM 5-6	
10:50-11:50	RF SENSING FOR SPACE DOMAIN AWARENESS (INVITED) DENVER BALLROOM 4	WEATHER RADAR DENVER BALLROOM 3	MACHINE LEARNING FOR ACTIVITY DETECTION DENVER BALLROOM 2-1
11:50-12:50	HANDOFF LUNCH (CLOSED) HOMESTEAD	LUNCH COLORADO F-J	
12:50-14:10	SPARSE ARRAYS DENVER BALLROOM 4	PHENOMENOLOGY AND MODELING DENVER BALLROOM 3	SAR/ISAR ATR DENVER BALLROOM 2-1
14:10-15:20	POSTER 4 DENVER BALLROOM 5-6	COFFEE BREAK COLORADO A-E	
15:20-17:00	MULTISTATIC & DISTRIBUTED DENVER BALLROOM 4	SAR/ISAR IMAGING & EXPLOITATION DENVER BALLROOM 3	MACHINE LEARNING FOR RADAR APPLICATIONS DENVER BALLROOM 2-1
17:00-17:30	CLOSING DENVER BALLROOM 4		

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## FRIDAY, MAY 10, 2024

TUTORIALS						
08:00-12:00	<table><tr><td>THREE-DIMENSIONAL INVERSE SYNTHETIC APERTURE RADAR COLORADO F</td><td>ACTIVE ELECTRONICALLY SCANNED ARRAYS: FUNDAMENTALS AND APPLICATIONS COLORADO G</td><td>MULTI-FUNCTION RF SYSTEMS FOR RADAR AND COMMUNICATIONS: SIGNAL PROCESSING, PROTOTYPING, AND EXPERIMENTS COLORADO H</td><td>NOISE RADAR: PRINCIPLES, SIGNAL PROCESSING, AND WAVEFORM DESIGN COLORADO J</td><td>DISTRIBUTED DETECTION, ESTIMATION, AND RESOURCE MANAGEMENT IN A NETWORK RADAR COLORADO I</td></tr></table>	THREE-DIMENSIONAL INVERSE SYNTHETIC APERTURE RADAR COLORADO F	ACTIVE ELECTRONICALLY SCANNED ARRAYS: FUNDAMENTALS AND APPLICATIONS COLORADO G	MULTI-FUNCTION RF SYSTEMS FOR RADAR AND COMMUNICATIONS: SIGNAL PROCESSING, PROTOTYPING, AND EXPERIMENTS COLORADO H	NOISE RADAR: PRINCIPLES, SIGNAL PROCESSING, AND WAVEFORM DESIGN COLORADO J	DISTRIBUTED DETECTION, ESTIMATION, AND RESOURCE MANAGEMENT IN A NETWORK RADAR COLORADO I
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10:00-10:30	COFFEE BREAK OUTSIDE COLORADO BALLROOM					
08:00-17:00	AESS BOARD OF GOVERNORS (CLOSED) PENROSE I					

## SATURDAY, MAY 11, 2024

08:00-17:00	AESS BOARD OF GOVERNORS (CLOSED) PENROSE I
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