

Saturday, 09 January					
TIME	Zoom # 1	Zoom # 2	Zoom # 3	Zoom # 4	Zoom # 5
8:30	Workshop - ADS: Accessible Devices and Services (Important: 14:30 - 18:30 CET, 08:30 - 12:30 EST)	Tutorial #1 Security and Privacy of 5G and Beyond 5G Networks	Tutorial #6 IoT Systems and Smartness – Digital Twin, Protocols, and Proof of Concept	Workshop - RoboCom: Communication and Networking for Swarms Robotics	Tutorial/Workshop Day 1: Information and Technical Support Desk
9:00					
9:30					
10:00	Break				
10:30	Workshop - ADS: Accessible Devices and Services (Important: 14:30 - 18:30 CET, 08:30 - 12:30 EST)	Tutorial #1 Security and Privacy of 5G and Beyond 5G Networks	Tutorial #7 IoT Systems and Smartness – Digital Twin, Protocols, and Proof of Concept	Workshop - RoboCom: Communication and Networking for Swarms Robotics	
11:00					
11:30					
12:00	Break				
12:30	Tutorial #5 Intra-body Communication Networks: State of the Art and Future Perspectives of Ultrasounds and Coupling Technologies	Tutorial #3 Blockchain for Cyberphysical Systems: Applications, Opportunities and Challenges		Workshop - RoboCom: Communication and Networking for Swarms Robotics	
13:00					
13:30					
14:00	Break				
14:30	Tutorial #5 Intra-body Communication Networks: State of the Art and Future Perspectives of Ultrasounds and Coupling Technologies	Tutorial #3 Blockchain for Cyberphysical Systems: Applications, Opportunities and Challenges		Workshop - RoboCom: Communication and Networking for Swarms Robotics	
15:00					
15:30					
16:00					

Sunday, 10 January								
8:30	General Session: Opening remarks and Keynote I							
8:30	Keynote Speaker 1 - Jim Lansford "The Connected Car: Will Autonomous Vehicles Finally Get Them on the Road?"							
9:00								
9:45	Break							
	Zoom # 1	Zoom # 2	Zoom # 3	Zoom # 4	Zoom # 6	Zoom # 7	Zoom # 8	
10:00	Session 1	Session 2	Session 3	Session 4	Work-in-Progress (I) - AI/ML	Work-in-Progress (II) - Connected Humans and Devices	Day 2: Information and Technical Support Desk	
10:30	5G and Towards 6G	Vehicular Safety and Privacy	Application-layer Security	Performance Analysis of Networks				
11:00								
11:30	Break							
TIME	Panel I							
11:45	Machine Learning for IOT							
12:00	Moderator: Ravikumar Balakrishnan, Intel							
12:30								
13:00	Break							
13:15	Zoom # 1	Zoom # 2	Zoom # 3	Zoom # 4	Zoom # 6	Zoom # 7		
13:30	Session 6	Session 7	Session 8	Session 9	Work-in-Progress (III) - Network Protocols	Work-in-Progress (IV) - Security, Privacy and Trust		
14:00	Energy-aware Networking	Connected Devices and Vehicles	Secure Protocols and Intrusion Detection	Wireless Communications: Fundamentals and PHY				
14:30								
15:00	Break							
15:15	Posters							
16:00								
16:30								
17:00								

**Monday, 11 January**

TIME	Monday, 11 January							
8:30	General Session: Awards Ceremony and Keynote II							
8:30	Keynote Speaker 2 - <b>Edward Knightly</b> - "WLANs above 100 GHz: Mobility, Sensing, and Security"							
9:00								
9:45	Break							
	<b>Zoom # 1</b>	<b>Zoom # 2</b>	<b>Zoom # 3</b>	<b>Zoom # 4</b>	<b>Zoom # 6</b>	<b>Zoom # 7</b>	<b>Zoom # 8</b>	
10:00	<b>Session 11</b>	<b>Session 12</b>	<b>Session 13</b>	<b>Session 14</b>	<b>Work-in-Progress (V) - Current and Emerging Standards</b>	<b>Work-in-Progress (VI) - IOT Applications and Low-latency Architectures</b>	<b>Day 3: Information and Technical Support Desk</b>	
10:30	Reinforcement Learning	Next Generation Protocols: MAC and Above	NFV and SDN (I)	Secure and Reliable IoT				
11:00								
11:30								
	Break							
11:45	Panel II							
12:00	Future of Wireless Charging							
12:30	Moderator: Sanjay Gupta, Airfuel							
13:00								
13:15	Break							
	<b>Zoom # 1</b>	<b>Zoom # 2</b>	<b>Zoom # 3</b>	<b>Zoom # 4</b>	<b>Zoom # 6</b>	<b>Zoom # 7</b>		
13:30	<b>Session 16</b>	<b>Session 17</b>	<b>Session 18</b>	<b>Session 19</b>	<b>Work-in-Progress (VII) - Low-power Networks</b>	<b>Work-in-Progress (VIII) - SDN, NFV, Edge Computing</b>		
14:00	ML for Network Protocols and Applications	Mobility Management	NFV and SDN (II)	IOT Applications				
14:30								
15:00								
	Break							
15:15	Demos							
16:00								
16:30								
17:00								

**Tuesday, 12 January**

TIME	Zoom # 1	Zoom # 2	Zoom # 3	Zoom # 4	Zoom # 6	Zoom # 7	Zoom # 8	
8:30	Workshop: SRSDN: Industrial Issues and Solutions such as Scalability and Reliability for Software Defined Networking	<b>Tutorial #7</b>	<b>Tutorial #8</b>	<b>Tutorial #9</b>	<b>Tutorial #4</b>	<b>Tutorial #2</b>	<b>Tutorial/Workshop Day 4: Information and Technical Support Desk</b>	
9:00		Reconfigurable Intelligent Surfaces for Future Wireless Communications	Computing in Communication Networks	Toward 5G mmWave Cellular Networks: Potential, Challenges, and Enablers	Cellular-connected UAVs - A Tutorial Overview	6G: THE NEXT FRONTIER: The Goal Oriented Wireless Semantic Communications Revolution		
9:30								
10:00								
	Break							
10:30	Workshop: SRSDN: Industrial Issues and Solutions such as Scalability and Reliability for Software Defined Networking	<b>Tutorial #7</b>	<b>Tutorial #8</b>	<b>Tutorial #9</b>	<b>Tutorial #4</b>	<b>Tutorial #2</b>		
11:00		Reconfigurable Intelligent Surfaces for Future Wireless Communications	Computing in Communication Networks	Toward 5G mmWave Cellular Networks: Potential, Challenges, and Enablers	Cellular-connected UAVs - A Tutorial Overview	6G: THE NEXT FRONTIER: The Goal Oriented Wireless Semantic Communications Revolution		
11:30								
12:00								
	Break							
12:30	Workshop: STP-CPS: Security Trust and Privacy for Emerging Cyber Physical Systems	<b>Tutorial #7</b>	<b>Tutorial #8</b>	<b>Tutorial #10</b>				
13:00		Reconfigurable Intelligent Surfaces for Future Wireless Communications	Computing in Communication Networks	AI-enabled Future Wireless Networks: Opportunities and Challenges Towards 6G				
13:30								
14:00								
	Break							
14:30	Workshop: STP-CPS: Security Trust and Privacy for Emerging Cyber Physical Systems	<b>Tutorial #7</b>	<b>Tutorial #8</b>	<b>Tutorial #10</b>				
15:00		Reconfigurable Intelligent Surfaces for Future Wireless Communications	Computing in Communication Networks	AI-enabled Future Wireless Networks: Opportunities and Challenges Towards 6G				
15:30								
16:00								