

6th IRACON Training School on
Machine and Deep Learning Techniques for (Beyond) 5G Wireless Communication Systems

April 8-11, 2019
 CTTC, Barcelona, Spain

	Monday, April 08	Tuesday, April 09	Wednesday, April 10	Thursday, April 11
09:00-10:00	Introduction by the organizers	AI Architectures for Beyond 5G Networks (1/2) Mérouane Debbah, Huawei Paris & CentraleSupélec	Learning to decode error correcting codes Yair Be'ery, Tel Aviv University	Wireless Network Intelligence @ the Edge Mehdi Bennis, University of Oulu
10:00-11:00	When Can Machine Learning Be Useful for Communication Systems? (1/2) Osvaldo Simeone, King's College London			
	Coffee break	Coffee break	Coffee break	Coffee break
11:00-12:00	Coffee break	AI Architectures for Beyond 5G Networks (2/2) Mérouane Debbah, Huawei Paris & CentraleSupélec	Moving to Data-Driven Machine Learning Communications Systems Tim O'Shea, DeepSig & Virginia Tech	Learn to Communicate - Communicate to Learn Deniz Gündüz, Imperial College London
12:00-13:00	When Can Machine Learning Be Useful for Communication Systems? (2/2) Osvaldo Simeone, King's College London			
13:00-14:00	Lunch	Lunch	Lunch	Lunch
14:00-15:00	Autoencoders - Learn to Communicate: From Theory to Practical Over-the-Air Transmission Sebastian Cammerer, University of Stuttgart	Learning the Wireless Communication Channel: From Model-Based Parameter Estimation to Deep Neural Networks Wolfgang Utschick, Technical University of Munich	Learning-based Beam Selection for Hybrid Beamforming in mmWave bands Carles Antón-Haro, CTTC	
15:00-16:00			Coffee break and poster session	
16:00-17:00	Coffee break and poster session	Panel Discussion	Machine Learning Challenge (work in groups)	
17:00-17:45	Machine Learning Challenge (presentation)	Machine Learning Challenge (work in groups)		
17:45-23:00		Social event and dinner		