

Distinguished Lecturer Tour
SPAIN
Davide Dardari
25 June 2018 – 30 June 2018

Trip report

Title of the lecture: Indoor localization and tracking: from theoretical foundations to practical applications

Abstract: The need for accurate geolocation has intensified in recent years, especially in cluttered environments (e.g., inside buildings, in urban canyons, under tree canopies, and in caves), where the global positioning system (GPS) is often inaccessible. The talk will provide fundamentals on short-range positioning technologies and discuss some recent progresses in localization and mapping techniques using massive antenna arrays at millimeter waves and battery-less devices. Particular attention will be devoted to low complexity solutions based on backscatter modulation and wireless power transfer. The main results obtained in practical implementations in related European Projects and on the Mars Rover at the European Space Agency will be illustrated.

Itinerary of the tour

- Day 1 Monday 25 June 2018
 - o departs from Bologna 10:35; Arrives at Barcelona 12:20. Lodging at Ibis Barcelona Castelldefels

- Day 2 Tuesday 26 June 2018
 - o Lecture at Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Castelldefels, Barcelona – 10h00 – 12h00. Contact person: Dr. Jordi Vilà-Valls <jvila@cttc.cat>

- Day 2a Tuesday 26 June 2018
 - o departs from Castelldefels to Barcelona at 15:00 and from Barcelona at 16:25 by train; Arrives at Madrid 18:55. Lodging at Hotel Tryp Leganes

- Day 3 Wednesday 27 June 2018
 - o Lecture at Universidad Carlos III de Madrid (UC3M), Madrid – 10h30-12h30. Contact person: Prof. Joaquín Míguez <joaquin.miguez@uc3m.es>

- Day 3a Wednesday 27 June 2018
 - o departs from Madrid 16:30; Arrives at Sevilla 18:51. Lodging at Petit Palace Canalejas hotel

- Day 4 Thursday 28 June 2018
 - o Lecture at the University of Seville (US), Sevilla – 10h00-12h00. The lecture was included as part of the PhD programme of the School of Engineering. Contact person: Prof. Eva Arias De-Reyna <earias@us.es>

- Day 5 Friday 29 June 2018
 - o Personal trip in Seville not included in the tour (hotel - 1 night - and meals paid by the lecturer)

- Day 6 Saturday 30 June 2018
 - o departs from Sevilla 10:40; Arrives at Bologna via Amsterdam 16:35