

Horizon 2020 European Union funding for Research & Innovation

Horizon 2020 Grant Agreement Number 734798

indoor small-cell Networks with 3D MIMO Array Antennas (is3DMIMO)



D4.5 Project Workshop (Year 2)

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Abstract

The is3DMIMO project workshop (year 2) consisted of 6 oral presentations on the recent research & innovation work carried out within the is3DMIMO project in year 2 and on closely related topics such as heterogeneous and small cell networks. The workshop was held at 10 Marina Barcelona Hotel, Barcelona, Spain, on Monday 17 September 2018 and was attended by more than 30 researchers from the academia and the industry within and outside the is3DMIMO project consortium. This deliverable includes the workshop agenda, the list of oral presentations and presenters, and the photos taken at the workshop.

Keywords

Project workshop, presentation, 3D MIMO, multiple-user MIMO, antenna arrays, indoor MIMO channel measurement, channel characterization, heterogeneous networks, small cells, D2D, spectral efficiency.

Project Acronym: is3DMIMO 1/9 Funding Scheme: H2020 MSCA Project Coordinator: The University of Sheffield Grant Agreement No. 734798



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Marie Sklodowska-Curie Research and Innovation Staff Exchanges (Project No. 734798)

Indoor Small-cell Networks with 3D MIMO Array Antennas (is3DMIMO)

is3DMIMO Year-2 Workshop Agenda

(collocated with the Special Session on Heterogeneous and Small Cell Networks at IEEE CAMAD 2018)

Barcelona, Spain, Monday 17 September 2018

Room: Icaria, 10 Marina Barcelona Hotel 64-68 Av. Bogatell, E-08005-Olympic Village, Barcelona, Spain http://camad2018.ieee-camad.org/program/

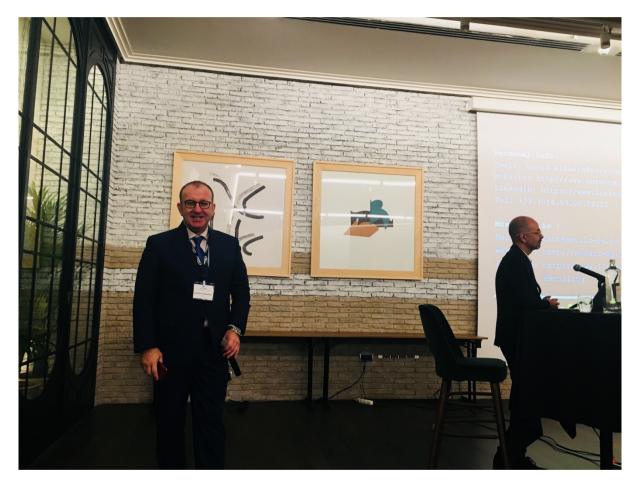
Workshop Chair: Dr. Xiaoli Chu

Time	Title and Authors	Presenter
11:00 – 11:15	Improving the Spectral Efficiency in Dense Heterogeneous Networks Using D2D-Assisted elCIC	Mohamed A Elshatshat
	Mohamed A Elshatshat (University of Crete & Foundation for Research and Technology, Greece); Stefanos Papadakis (FORTH-ICS, Greece); Vangelis Angelakis (Linköping University, Sweden)	
11:15 – 11:30	Bringing LTE to Unlicensed Spectrum: Technical Solutions and Deployment Considerations	Yuan Gao
	Bolin Chen (University of Sheffield, United Kingdom (Great Britain)); Zheng Chen, Nikolaos Pappas and Di Yuan (Linköping University, Sweden); Jie Zhang (University of Sheffield, Dept. of Electronic and Electrical Engineering, United Kingdom (Great Britain))	
11:30 – 11:45	Indoor Multiple-User MIMO Channel Measurement and Characterization Jiliang Zhang (Lanzhou University, P.R. China); Yang Wang and Liqin Ding (Harbin Institute of Technology, P.R. China); Xiaoli Chu (University of Sheffield, United Kingdom (Great Britain)); Jie Zhang (University of Sheffield, Dept. of Electronic and Electrical Engineering, United Kingdom (Great Britain))	Xiaoli Chu
11:45 – 12:00	A System for Optimizing Small-Cell Deployment in 2-Tier HetNets	Jonathan Michael Rigelsford
	Dorathy Abonyi and Jonathan Michael Rigelsford (The University of Sheffield, United Kingdom (Great Britain))	

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12:00 – 12:15	Managing Interference in D2D Networks via Clustering and Topological Awareness Salam Doumiati and Hassan A. Artail (American University of Beirut, Lebanon); Mohamad Assaad (CentraleSupelec, France)	Salam Doumiati
12:15 – 12:30	Guaranteed Bit Rate Traffic Prioritisation and Isolation in Multi-tenant Radio Access Networks Irene Vilà Muñoz, Oriol Sallent, Anna Umbert, Jordi Pérez-Romero (Universitat Politècnica de Catalunya (UPC), Spain)	Irene Vilà Muñoz

Some photos taken at the workshop:



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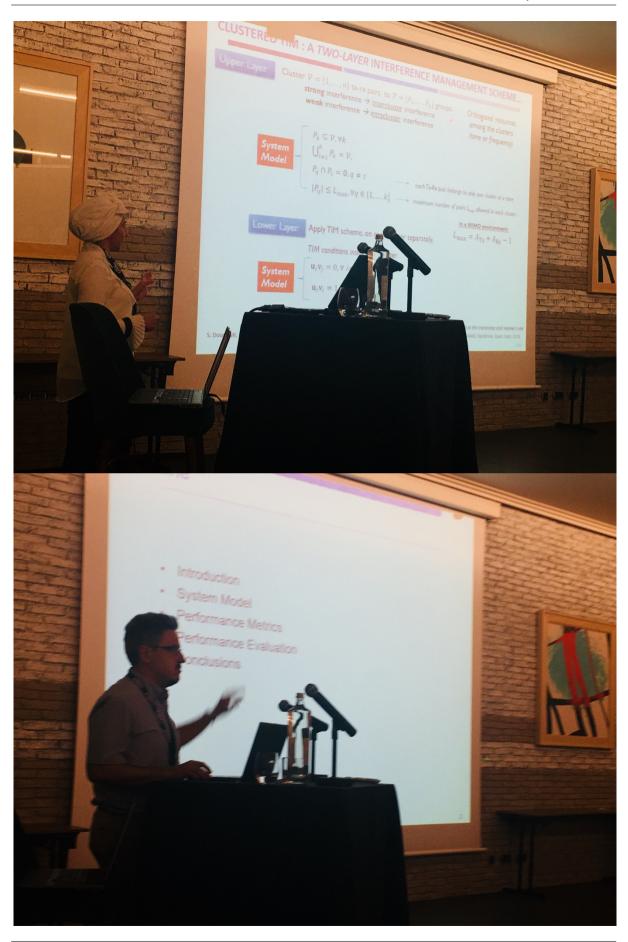
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Concluding Remarks

The is3DMIMO project workshop (year 2) was attended by more than 30 researchers from the academia and the industry within and outside the is3DMIMO project consortium. It has been very successful in providing the attendees with the ongoing work of the European Union Horizon 2020 MSCA-RISE project is3DMIMO and the recent work from researchers who have been working on topics closely related to the is3DMIMO project. Based on the oral presentations given by the researchers on the research & innovation work carried out within the is3DMIMO project in year 2 and through the fruitful discussions during the workshop, the project partners and the external collaborators have been able to synchronize their research work on their corresponding work package(s) and task(s) for the project and to explore new opportunities for research collaboration. The workshop concludes that the research work so far has been on track following the workplan in the Grant Agreement. Building on the discussions and comments from the attendees, the project partners are prepared to push the research & innovation progress up to a new level in year 3 of the project.

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