

EUPROMETA – 36th Doctoral School on Metamaterials,
28-29 June 2018, Aalto University, Finland

Tunable and Software-Driven Functional Metasurfaces

School Program

Thursday, 28 June 2018

Hour	Topic	Lecturer
9:00 - 11:00	Introduction to electromagnetic metasurfaces: motivation, properties and modelling	Sergei Tretyakov
11:00 - 11:20	Break	
11:20 - 12:50	Software-defined and software-driven metasurface paradigm	Christos Liaskos Sergi Abadal
13:00 - 14:00	Lunch	
14:00 - 15:30	Wireless communications aspects within software-driven metasurfaces	Eduard Alarcón
15:30 - 16:00	Break	
16:00 - 17:00	Self-study and interactions with the lecturers	All teachers
19:00 - 21:00	School dinner	

Friday, 29 June 2018

Hour	Topic	Lecturer
9:00 - 11:00	Comparison of functionalities achievable by metasurfaces and phased arrays, possible tunability mechanisms and examples of realizations of tunable and digital metasurfaces	Sergei Tretyakov and Fu Liu
11:00 - 11:20	Break	
11:20 - 12:50	Tunable fabric- and graphene-based designs	Anna Tasolamprou and Xuchen Wang
13:00 - 14:00	Lunch	
14:00 - 15:00	Software, system and application aspects	Ian F. Akyildiz
15:00 - 15:30	Break	
15:30 - 17:00	Discussion, conclusion and exam	All teachers
17:00	Closing ceremony	