IV training school of the COST 1301 – WIPE

Electromagnetics and emerging technologies for pervasive applications: Internet of Things, Health and Safety

Organizers: Prof. Alessandra Costanzo, Prof. Diego Masotti



Ш









Welcome to Bologna!



"The Oldest University"



"Anatomic School-Room"



"The Little Venice"

Scost



"Excellent Food"



Aim of the school

New emerging technologies related to pervasive exploitation of Wireless Power transfer (WPT) and Energy Harvesting (EH).

ADVANCED SOLUTIONS FOR:

- passive and active localization;
- smart WPT;
- Wearable, stretchable and epidermal electronics;
- home-assisted living;
- implantable devices.

LINK FOR LECTURES DOWNLOAD:

http://www.dei.unibo.it/en/research/groups/em-fieldsand-antennas/school-2016













Welcome addresses:

Prof. Enrico Sangiorgi

Vice Rector of the Alma Mater Studiorum, University of Bologna for Teaching and Education

Prof. Gabriele Falciasecca President of Fondazione Guglielmo Marconi











Electromagnetics and emerging technologies for pervasive applications: IoT, Health and Safety

Day	Schedule	Title	Speaker	Affiliation
Monday	10:00 - 10:45	Registration		
	10:45 - 11:00	Welcome	E. Sangiorgi -Vice Rector for Teaching and Education- & A. Costanzo -School Co-Chair-	University of Bologna (Italy)
	11:00 -12:00	Passive Wireless Sensor Networks – Combining backscatter communications with WPT	N.B. Carvalho	University of Aveiro (Portugal)
	12:00 - 13:00	Novel antenna design paradigms for the Internet of Things	H. Rogier	Ghent University (Belgium)
	13:00 - 14:00		Lunch	
	14:00 - 15:00	The driving force of IoT for the development of electronic technologies	L. Roselli	Univesity of Perugia (Italy)
	15:00 - 16:30	Chipless RFID, State of the art & current Developments	S. Tedjini	LCIS lab - Université Grenoble Alpes (France)
	16:30 - 17:30	Near-field focused antennas for wireless communications and power transfer	P. Nepa	University of Pisa (Italy)
	8	NIPE Jondazione Guglielmo Marconi	EUROPEAN COOPERATION	× * *

CCOS

Electromagnetics and emerging technologies for pervasive applications: IoT, Health and Safety

Day	Schedule	Title	Speaker	Affiliation	
Tuesday	8:30 – 9:30	Substrate Integrated Waveguide (SIW) Components on Paper, Textile, and 3D-Printed Substrates for the Internet of Things	M. Bozzi	University of Pavia (Italy)	
	9:30 - 10:30	Radiative and non-radiative Wireless Power Transfer: theory and applications	G. Monti	University of Salento (Italy)	
	10:30 - 11:00	Coffee Break			
	11:00 - 12:00	Operating regimes for single and multiple wireless power transfer links	M. Mongiardo	University of Perugia (Italy)	
	12:00 - 13:00	Implantable Wireless Medical Devices and Systems	J.C. Chiao	University of Texas at Arlington (USA)	
	13:00 - 14:00	Lunch			
	14:00 - 15:00	Flexible, organic photonic sensor system for a large spectrum of portable applications: from health to security	B. Fraboni	University of Bologna (Italy)	
	15:00 – 16:00	Inverter and Rectifier Design for Inductive Power Transfer	P.D. Mitcheson	Imperial College London (UK)	
	16:00 - 17:00	Your home as doctor: Smart homes enable medical diagnosis	D. Schreurs	KU Leuven (Belgium)	
	EVENING		Social Event		

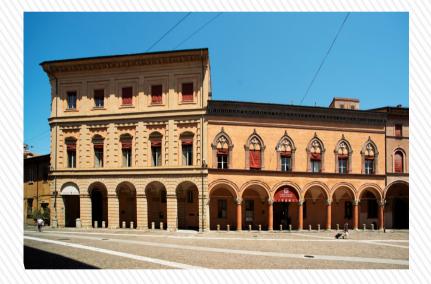
ndazione Guglielmo Marconi

EUROPEAN COOPERATION

IN SCIENCE AND TECHNOLOGY

School dinner

Tuesday April 19, 2016 Corte Isolani 5, 40125 BO











In Bologna,

in Piazza Santo Stefano,

Palazzo Isolani is at the

entrance to the almost

theatrical backdrop of

buildings ranging between

the XV- and the sober but

sumptuous Bolognese

Baroque XVIII-century,



OCOSH C

Electromagnetics and emerging technologies for pervasive applications: IoT, Health and Safety

Day	Schedule	Title	Speaker	Affiliation		
	8:30 - 9:30	Beyond incremental research: the science of creative thinking	G. E. Corazza	Marconi Institute for Creativity – University of Bologna (Italy)		
	9:30 –10:30	Radiative Wireless Power Transfer at Holst Centre / imec and TU/e: past, presence and future	H. Visser	Technische Universiteit Eindhoven (The Netherlands)		
	10:30 - 11:00	Coffee Break				
	11:00 - 12:00	RFID Technology for IoT-based Personal Healthcare in Smart Spaces	G. Marrocco	Roma Tor Vergata University (Italy)		
Wednesday	12:00 - 13:00	EM Positioning for IoT	F. Viani	ELEDIA – University of Trento (Italy)		
edne	13:00 - 14:30	Lunch				
We	14:30 - 15:30	Ultra-wideband Backscatter Signaling for Zero-power Radio Identification and Positioning	D. Dardari	Univesity of Bologna (Italy)		
	15:30 – 16:30	Leaky-wave antenna design for analog-signal-processing oriented devices for WPT, Energy Harvesting, Smart Cities and IoT devices	J. L. G. Tornero	Technical University of Cartagena (Spain)		
	16:30 - 17:30	Intentional Wireless Power Transmission via Time-modulated Arrays	D. Masotti	University of Bologna (Italy)		
	17:30 - 18:30	Marconi's Museum Visit				
WIPE Undersone Guglielmo Marconi						