



ChiplEss MultisEnsor Rfid for GrEen NeTworks

EMERGENT



Knowledge sharing activities

Training – WP4-T4.3

‘Characterization of RFID tags and sensors in real environments’

Agenda

11-12-13/04 2018

University Rovira i Virgili –Electrical, Electronic Engineering and Automation
Department

Venue: Av. Països Catalans, 26 – 43007 Tarragona.

Participants			
Number	Name	Organization	Country
1	Antonio Lázaro	URV	Spain
2	Ramón Villarino	URV	Spain
3	David Girbau	URV	Spain
4	Martí Boada	URV	Spain
5	Albert Escala	Generation RFID	Spain
6	Salvatore Rosannia	Cubit	Italy
7	Nicola Galli	Cubit	Italy
8	Alessandro Scatta	Cubit	Italy

9	Marc Lázaro	URV	Spain
10	Hannah Kletzky	URV	Spain
11	Stefano Milici	URV / S.S. Sant'Anna	Spain / Italy
12	Abanob Abdelnour	LCIS	France
13	Elisabet Xifré	URV	Spain
14	Magalí Estrada	Cinvestav	Mexico
15	Antonio Cerdeira	Cinvestav	Mexico

11.04.2018			
Time	Topic	Presenter	
09:00-09:15	Registration of participants		
09:15-09:30	Welcome speech Scope of the training, overview of the agenda	David Girbau, URV Room 331	
9:30-10:30	NFC as enabling technology for passive wireless sensors.	Martí Boada, URV Room 331	
10:30-11:00	Coffee Break		
11:00-12:00	Battery-less soil moisture measurement system based on NFC with energy harvesting, using a mobile phone as reader	Martí Boada, URV Room 331	
12:00-13:00	Lab 1.1: Demonstration of an energy-harvested NFC moisture, temperature and humidity sensor	Martí Boada, URV Lab 243	
13:00-14:30	Lunch Break		
14:30-15:30	Wireless wearable magnetometer-based sensor for sleep quality monitoring	David Girbau, URV Room 331	
15:30-16:30	Lab 1.2: Demonstration of a wireless magnetometer-based sensor for sleep quality monitoring	David Girbau, URV Room 331	
12.04.2018			
Time	Topic	Presenter	
09:00-09:15	Registration of participants		
09:15-10:30	Theory on measurement of on-body sensors using Frequency Selective Surfaces (FSS) as transponders.	Antonio Lázaro, URV Room 331	
10:30-11:00	Coffee Break		
11:00-12:00	Wireless breathing sensor based on wearable modulated frequency selective surfaces	Stefano Milici (skype), S.S. Sant'Anna, Antonio Lázaro,	

12:00-13:00	Custom reader design and performance for detection of on-body FSS.	URV Room 331 Stefano Milici (skype), S.S. Sant'Anna, Antonio Lázaro, URV Room 331
13:00-14:30	Lunch Break	
14:30-17:00	Lab 2.1: Real Time demonstration of measurement of apnoeas using FSS-based temperature sensors.	Antonio Lázaro, URV Lab 243
13.04.2018		
Time	Topic	Presenter
09:00-09:15	Welcome of participants	
09:15-09:45	Manufacturing of PLA-based RFID tags at URV	Ramón Villarino, URV Room 331
9:45-10:15	Design of UHF RFID tags on PLA for food traceability	Abanob Abdelnour (Skype), LCIS, Ramón Villarino, URV Room 331
10:15-11:00	Coffee Break	
11:00-12:00	Passive sensors for structural health monitoring	Martí Boada, URV Room 331
12:00-13:00	Lab 3.2: Demonstration of concrete characterization using semi-passive topology and capacitive sensors	Martí Boada, URV Lab 243
13:00-14:30	Lunch Break	
14:30-16:00	Concluding remarks and open discussion on the topics of the training	David Girbau, URV Room 331
Resources:		
Projector, PowerPoint presentations, Measurement equipments		
Special notes:		
Venue URV-ETSE (Escola Tècnica Superior d'Enginyeria) The venue is in the Department of Electronic, Electrical and Automatic Control Engineering (DEEEA), building E4 in the map of the Campus, Room: 331 (Located at the 3rd floor), Lab 243 (located at the 2 nd floor). A map of the Campus can be found here: http://deeea.urv.cat/deeea/index.php/ca/contacte/planol-campus		
Accommodation Every partner is responsible for their own accommodation booking. We suggest to book one of these hotels in Tarragona (more information available at the Dropbox folder): - <u>Hotel Lauria</u> (close to the city center, 10 min bus from the University, 20 min walk from the University) - <u>Hotel Ciutat de Tarragona</u> (5 min walk to the city center, 5 min bus from the University, 15 min walk from the University)		
Transportation		

Organization of transportation from-to airport (Barcelona)-to train station (Camp de Tarragona) is under responsibility of each participant.

Attendance sheet				
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