Nertjana Ustalli

nertjana.ustalli@uniroma1.it

Desired employment / Occupational field

Assegno per lo svolgimento di attività di ricerca di categoria B-Tipo I presso il Dipartimento di Ingegneria dell'Informazione, Elettronica e Telecomunicazioni (DIET) della Sapienza Università di Roma,

Bando n10-2018

Personal information

First name	Nertjana
Last name	Ustalli
E-mail	nertjana.ustalli@gmail.com
	nertjana.ustalli@uniroma1.it

Education

November 2014 –October 2017	Ph.D. in Information and Communication Technologies, Radar and Remote Sensing (Sapienza University of Rome, Italy)
22 February 2018	Ph.D. defense
Topic	Detection and motion parameters estimation techniques in Forward Scatter Radar configuration.
October 2011-July 2014	M.Sc. in Communication Engineering, Sapienza University of Rome, Rome (Italy) Grade: 110/110 cum laude
September 2007-October 2011	B.Sc. in Communication Engineering, Sapienza University of Rome, Rome (Italy) Grade: 108/110
September 2003 – July 2007	High School, Themistokli Germenji, Korce (Albania) Grade: 9.96/10

Research activities

November 2017 –March 2018	Research fellowship, Sapienza University of Rome, Department of Information Engineering, Electronics and Communications
Topic	Processing techniques for bistatic radar operating in Forward scattering

Research interest

My main research interest is on Radar systems.; in particular in : Forward Scatter Radar, Signal processing, Target detection, Motion parameters estimations, Passive Radar, SAR systems, Change detection

techniques.

Projects

July 2017-June 2018
Research project financed from Sapienza University of Rome, Rome (Italy)

Title
Satellite-Based Passive Bistatic Radar for Air and Maritime Surveillance Applications.

Description
The main goal of this activity is the development of innovative techniques able to detect, extract feature and estimate the kinematic parameters for maritime and airborne targets by exploiting space-based transmitters as illuminators of opportunity.

Conferences attended & Schools

Radar 2017
International Conference on Radar Systems, Belfast, UK, October 23-27, 2017

IRS 2017
18th International Radar Symposium, Prague, Czech Republic, June 28-30, 2017

RadarConf 2017
IEEE Radar Conference, Seattle WA, USA, May 8-12 2017

Radar Summer School
IEEE AES Radar Summer School, Seattle WA, USA, May 6-7, 2017

EuSAR 2016
11th Europian Conference on Synthetic Aperture Radar, Hamburg, Germany, June 6-9, 2016

IRS 2016
17th International Radar Symposium, Krakow, Poland, May 10-12, 2017

International Summer School on radar/SAR
7th International Summer School on radar/SAR, Remagen, Germany, July 10-17, 2015 organized by Fraunhofer-Institut für Hochfrequenzphysik und Radartechnik FHR.

PhD thesis

November 2014 - October 2017
Detection and motion parameters estimation techniques in Forward Scatter Radar

Description
The main goal of the research activities carried out was the development of innovative techniques for the detection and kinematic parameter extraction of moving targets in Forward Scatter Radar (FSR) configuration. Analytical characterization of the detection performance and of the accuracy of the motion parameters estimation was derived and validated through synthetic and real data.

Master thesis

January 2014-July 2014
Change detection techniques for multi-temporal SAR images

Description
In this work several techniques, both coherent and non-coherent, for detecting scene changes from multi-temporal SAR images were implemented and their performance evaluated and compared.

Bachelor thesis

March 2011-October 2011
Development of new algorithm for dynamic bandwidth

allocation in satellite network based on the theory of games.

Description	The main goal of the thesis was the development of new algorithms for the Bandwidth on Demand (BoD) based on Congestion pricing and theory of games.

Languages

Albanian	Mother tongue
Italian	Highly proficient
English	Good

Computer skills

Operating systems	Windows, Linux (Basic)
Computational Software's	MATLAB
Circuit CAD Tools	PSPICE (basic)
Programing language	Java (basic)

Other activities

September 2012-July 2014	Student Collaboration Scholarship from Sapienza University of Rome, Rome (Italy) at CIAO (Centro di Informazione Accogglienza e Orientamento) –Help Desk
Description	Providing information to students who wish to study, conduct research or participate in internships at Sapienza University. Also helping students to contact the right offices and people.

Interest

Science	Mathematics, Physics
Art	Literature, Cinema and Music
Other	Travelling

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

(Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".)

Rome,07/05/2018   Nertjana Ustalli

Nertjana Ustalli   **nertjana.ustalli@uniroma1.it**