E. Veronica Belmega

Associate Professor (*Maître de Conférences, HDR*) at ENSEA
Deputy Director of ETIS laboratory

Address	ETIS/ENSEA,
	6, Av. du Ponceau
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	France
Date of Birth	22nd May 1983
Nationalities	Romanian and French

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Civil Status	Married, one child

Research Interests

Themes: online optimization, machine learning and game theory applied to energy-efficient communications, IoT networks, MIMO systems, wireless communications, physical layer security, electrical power grids, ...

Main contributions: optimal transmit (precoding) strategies maximizing the energy efficiency in MIMO systems, low-feedback online and efficient algorithms coping with arbitrary network dynamics and mobility (IoT networks)

Professional Experience

Sep 2011 - Present	Associate Professor (*Maître de Conferénces*) - ENSEA, Electrical engineering graduate school, Cergy-Pontoise, France *Research: ETIS, UMR 8051, CY Cergy Paris Université, ENSEA, CNRS* *Teaching: Computer Science Dept. and Signal Processing Dept.*
Sep 2015 - Aug 2017	Visiting Researcher (Délégation complète) - Inria, Grenoble Rhône-Alpes, France *Collaborator: Panayotis Mertikopoulos*
Oct 2010 - Aug 2011	Post-doctoral Researcher - Princeton University, NJ, USA, and Supélec, Gif-sur-Yvette, France *Collaborators: Vincent H. Poor, Lalitha Sankar, Walid Saad, Mérouane Debbah*
Sep 2007 - Aug 2010	Teaching Assistant (*Monitrice*) - École Polytechnique, Palaiseau, France *Teaching: Physics Dept.*

Education and Degrees

Mar 2019	HDR (Habilitation to Direct Research) - Université de Cergy-Pontoise, France *"Contributions to energy-efficient wireless communications exploiting games, online optimization and learning"*
2007-2010	PhD in Telecommunications - Université Paris-Sud 11, Orsay, France *"On resource allocation problems in distributed MIMO wireless channels"* *Research: L2S, UMR 8506, CNRS, CentraleSupélec, Université Paris-Saclay* *Advisors: Samson Lasaulce, Mérouane Debbah*
2006-2007	MSc in Signal Processing and Communications - Université Paris-Sud 11, Orsay, France **Rank:** 1/13, *Mention TB - Trés Bien*
2005-2006	International Socrates/Erasmus Exchange Program - École Polytechniques, Palaiseau, France **Track:** *Applied Mathematics (3rd year, French engineer cycle)*
2002-2007	Engineer Diploma in Automatic Control and Computer Science - Politehnica University of Bucharest, Romania ***Rank:** 6/210*

Awards and Distinctions

2021	**Prix CY Alliance**: Women and Science award
2020	IEEE Senior Member
2020	PR certification (*qualification*)- CNU 61
2018	Doctoral Supervision and Research Bonus (PEDR) - French National Council of Universities (CNU 61)
2017	Top Editors - Transactions on Emerging Telecommunications Technologies (ETT)
2015	Fellowship for Mobility (*Délégation*) - Inria, France
2012	Associate Research Scholar Fellowship - Princeton University, NJ, USA
2009	**Prix L'Oréal**: National Fellowship - L'Oréal France - UNESCO - French Academy of Science
2007	PhD Fellowship - French Ministry of Research and Education
2005	Socrates/Erasmus International Scolarship - École Polytechnique and Politehnica University of Bucharest

Advising

PhDs   3 ongoing (30% and 60% - official director, and 20% - co-advisor), 3 defended (40%, 50%, 75% - co-advisor) and one starting in the fall 2021

Post-docs   2

Publications

27 (20*)   International journal papers, **3 (2*)** invited
51 (40*)   International conference papers, **13 (6*)** invited
4 (1*)   Book chapters
6 (3*)   National conference papers
* Publication of research work post-PhD

Scientific Responsibilities

2020 - present   ETIS, UMR 8051, CY Cergy Paris University, ENSEA, CNRS
Deputy Director (Directrice Adjointe)

2019 - 2023   International ANR - FAPESP research project: ELIOT - Emerging Technologies in IoT
Principal Investigator (PI)

2016 - 2018   Signal-Image-Vision Best PhD prize organized jointly by the French Club EEA, GdR ISIS and GRETSI
Jury member, Vice-president in 2017 and President in 2018

Jan. 2013 - Nov. 2017   GdR ISIS French Network in Image, Signal and Vision funded by the CNRS and French industrial partners
Scientific coordinator (Directrice scientifique adjointe)

2016 - present   PhD and Associate Prof. hiring committees
PhD examiner: 8; PhD reviewer (rapporteure): 4; Associate Prof. hiring committees: 5

Local Responsibilities (ENSEA)

Since 2020   Int. Relations correspondent of the "Radulet" area (Czech Rep., Bulgaria, Romania, Greece, Turkey)
Since 2019   Head of the Master of Eng. in Computer Science (*Option IS - Informatique et Systèmes, 3ème année*)
2014, 2018   Co-head of the Master of Eng. in Networks and Communications (*Option RT - Réseaux et Télécoms., 3ème année*)
2013-2016   Member of the Scientific Board

Editorial Activities

Jul. 2016 - Feb. 2020   Transactions on Emerging Telecommunications Technologies (ETT)
Executive Editor

Feb. 2017 - Oct. 2017   IET Signal Processing
Associate Editor

Conference Organization and TPCs

2020   Special session: *"Recent advances in the applications of game theory and learning to communication networks"*, **NETGCOOP**, Cargese, Corsica

2017   **GdR ISIS meeting**: *"Game theory, optimization and learning"*, Paris, France

2014   International workshop: *"Wireless Networks, Communication, Cooperation and Competition" (WNC3)*, **WiOpt**, Hammamet, Tunisia

2013   Special session: "*Communications and Control in the Smart Grid" (CCSG)*, **IEEE BlackSeaCom**, Batumi, Georgia

Since 2011   Regular **TPC**: IEEE confs. ICC, GLOBECOM, WCNC, ICNC, SPAWC, etc.