

Algerian Summer School on Signal Processing and its Applications
 'Signal Processing for Telecommunications'
 17-20 December 2017, Guelma, Algeria



DETAILED PROGRAM

Dimanche 17 décembre 2017	Lundi 18 décembre 2017	Mardi 19 décembre 2017	Mercredi 20 décembre 2017
8h—9h Enregistrement & Cérémonie d'ouverture	8h—9h30 Prototyping and Productization to go with R&D strategic objectives: Algerian Academic Context Par Samir Tagzout	8h—10h Analyse Temps Fréquence Par Adel Belouchrani	8h—9h30 Emerging technologies and applications in a 5G era-perspectives Par Riadh Hartani
9h—9h30 Pause café	9h30—10h Pause café	10h—10h30 Pause café	9h30—10h Pause café
9h30—12h Identification et égalisation de canal Par Karim Abed-Meraim	10h—12h30 Traitement de données en TIC Par Hacène Belbachir	10h30—12h Analyse Temps Fréquence Par Adel Belouchrani	10h—12h Antennas: a Radio/Free-space Interface or a powerful Signal Processing Device? Par Farid Ghanem
12h—13h30 Déjeuner	12h30—14h00 Déjeuner	12h—13h30 Déjeuner	12h—13h30 Déjeuner
13h30—15h Identification et égalisation de canal (suite) Par Karim Abed-Meraim	Sortie Sociale	13h30—16h Travaux pratiques sur l'analyse temps fréquence Par Adel Belouchrani	13h30—14h30 Cérémonie de clôture
15h—15h30 Pause café		16h—16h30 Pause café	
15h30—17h30 Session poster 1		16h30—18h00 Session poster 2	
17h30—19h30 Temps libre + échanges		18h00—19h30 Forum de discussion	
19h30—21h Diner		19h30—21h Diner	19h30—21h Diner

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Speaker's short biographies

Prof. Karim Abed-Meraim: Karim Abed-Meraim was born in 1967. He received the State Engineering Degree from Ecole Polytechnique, Paris, France, in 1990, the State Engineering Degree from Ecole Nationale Supérieure des Télécommunications (ENST), Paris, France, in 1992, the M.Sc. degree from Paris XI University, Orsay, France, in 1992 and the Ph.D. degree from the ENST in 1995 (in the field of Signal Processing and communications).

From 1995 to 1998, he took a position as a research staff at the Electrical Engineering Department of the University of Melbourne where he worked on several research projects related to "Blind System Identification for Wireless Communications", "Blind Source Separation", and "Array Processing for Communications", respectively. From 1998 to 2012 he has been Assistant then Associate Professor at the Signal and Image Processing Department of Telecom-ParisTech. His research interests are in signal processing for communications and include system identification, multi-user detection, space-time coding, adaptive filtering and tracking, array processing and statistical performance analysis. In September 2012 he joined the University d'Orléans (PRISME Lab.) as a full Professor.

He has been also a visiting Scholar at the Centre of Wireless Communications (National University of Singapore) in 1999, at the EEE Department of Nanyang Technological University (Singapore) in 2001, at Telecom Malaysia Research and Development centre in 2004, at the School of Engineering and Mathematics of Edith Cowan University (Perth, Australia) in 2004, at the EEE Department of the National University of Singapore in 2006, at Sharjah University (UAE) in 2008-2009, at King Abdullah University of Science and Technology (KSA) in 2013 and at King Fahd University of Petroleum & Minerals (KSA) in 2015. He is the author of over 400 scientific publications including book chapters, international journal and conference papers and patents.

Dr. Samir Tagzout: Samir Tagzout received the Engineering and the M.Sc. degrees in Electronics Systems from the University USTHB of Algiers. He received his Doctorate from Ecole Nationale Polytechnique of Algiers. He received his Graduate Certificate in Information Technology Project Management from Ottawa University, Canada. From 1992 to 2000 he worked in the CDTA Microelectronics Laboratory, Algiers. In 1999 he worked as an Instructor in the Basic VLSI Design Techniques Workshop in the ICTP in Trieste, Italy. From 2001 to 2010, he has been with the R&D Department of the Communication Group in the former Zarlink Semiconductor Inc (Now Microsemi). From 2010 to 2016, he worked at the University Abderahmane Mira of Bejaia and in CDTA where he held several management positions including the position of CDTA Director. Since 2016, he is the Director of the R&D&I at Groupe Brandt, Industry Pole at CEVITAL spa. Overall, Samir has participated in the introduction of successful new R&D products and in setting up R&D management frameworks.

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Prof. Hacène Belbachir: Hacène Belbachir was born in Algiers, Algeria, on August 31th, 1967. He received the High Diploma of Studies degree in 1991, in Mathematics, Option : Probability and Statistics, from University of Science and Technology HouariBoumediene (USTHB), Algiers, Algeria ; the Magister degree in Mathematics, Option : Algebra and Number Theory in 1994, in the same university ; the Magister degree in Applied Economics and Statistics , Option : Sampling and Bayesian methods in Statistical Quality Control in 1996, at the National Institute in Planning and Statistics (INPS), Algiers, Algeria; and the 'Doctorat'Etat' (PhD + Habilitation) degree in Mathematics in 2007, Option : Number Theory and Combinatorics from USTHB. He is currently and since 2012 Full Professor at USTHB. His research interests are combinatorics, number theory and sampling plans in statistical control quality with Bayesian methods. Professor Hacène Belbachir, from 2009 to 2016, was the responsible of the Scientific indicators and then of the research programming, evaluation and prospective at the general directorate of scientific research and technological development in Algeria. He is member of the Laboratory of Operation Research, Combinatorics, Theoretical Informatics and Stochastic Methods (RECITS)as head of the CATI Team (Combinatorics, Arithmetics and Theoretical Informatics). He is also associate member of the LF2MI (International Laboratory of Mathematics and its Interactions) and of the LITIS Laboratory from Rouen University.

Prof. Adel Belouchrani: Adel Belouchrani was born in Algiers, Algeria, on May 5, 1967. He received the State Engineering degree in 1991 from EcoleNationalePolytechnique (ENP), Algiers, Algeria, the M.S. degree in signal processing from the Institut National Polytechnique de Grenoble (INPG), France, in 1992, and the Ph.D. degree in signal and image processing from Télécom Paris (ENST), France, in 1995. He was a Visiting Scholar at the Electrical Engineering and Computer Sciences Department, University of California, Berkeley, from 1995 to 1996. He was with the Department of Electrical and Computer Engineering, Villanova University, Villanova, PA, as a Research Associate from 1996 to 1997. From 1998 to 2005, he has been with the Electrical Engineering Department of ENP as Associate Professor. He is currently and since 2006 Full Professor at ENP. His research interests are in statistical signal processing, (blind) array signal processing, time-frequency analysis and time-frequency array signal processing with applications in biomedical and telecommunications. Professor Adel Belouchrani is an IEEE Senior Member and has published over 180 technical publications including 48 journal papers, 4 book chapters and 4 patents that have been cited over 6000 times according Google Scholar and over 2000 time according to ISI Web Of Science. He has supervised over 20 PhD students. Professor AdelBelouchrani is currently Associated Editor of the IEEE Transactions on Signal Processing and Editorial board member of the Digital signal processing Journal (Ed. Elsevier). He has been recently nominated as a founding member of the Algerian Academy of Science and Technology.

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Dr. Riadh Hartani: Riadh Hartani has spent the last two decades contributing to the development of Internet, Mobile and Artificial Intelligence technologies, mostly out of the Silicon Valley as a hub, building multiple leading technology startups, advising on strategic investments and rolling out innovative technologies all over the world. He led many industry firsts in the areas of wireless/internet network design, cloud and big data architectures and Artificial Intelligence. He is well versed in the technology startups, innovation and investment eco-systems globally. He has lived and worked in very diverse regions of the world, gaining a broad understanding of cross-cultural technology management and business development. Co-founded a global technology and investments advisory firm, Xona Partners (San Francisco, Singapore, Vancouver, Tokyo), with a novel startup incubation and spin-in model as a way to foster disruptive technology innovation. Co-founded iValley.co, a tech startup co-creation studio (San Francisco area) with a fintech / Internet of Things / Artificial Intelligence focus. Been in the leadership team of various technology startups, including: N42, Inc. as Head of Technology, Wichorus, Inc. as head of Global Systems Engineering - acquired by Tellabs -, Anagran, Inc. as head of Technology - acquired by Saisei, Caspian, Inc. as Chief Architect - acquired by Sable Networks, all in the Silicon Valley area. Focus has been on the development of Internet and mobile infrastructure, cloud networks, security solutions and Artificial Intelligence applications. Worked closely with Tier 1 Silicon Valley Venture Capital firms, contributing to raising significant venture capital funding, in the ventures he was involved with, leading to various successful exits.

Lead and contributed to advanced research teams in prestigious R&D labs in the US (University California at Berkeley), Canada (National Research Council), France (Scientific National Research Center), Korea (Telecommunications Research Institute) and Japan (Hitachi Central Research Labs & AI Labs). Focus has been on designing and deploying solutions in the Internet/Mobile and Data Sciences fields.

Has lead the design/deployment teams in many industry firsts, including: one of the first AI based automated subways control design (France), AI based facial expressions recognition (Japan), ultra-low latency stock exchange data center designs (Hong Kong) and 4G mobile networks rollouts (USA) among others. Along Riadh's Ph. D. thesis was one of the first machine learning thesis combining Neural Networks (numerical AI) and Fuzzy Systems (symbolic AI) with successful industrial applications. Has been a founding member of various technology ventures, on the advisory board of various startups in over 15 countries, been on the judging committee of global investment and technology awards events over 20 times, published/presented over 200 research, industry and Internet standards papers, lectured at over 10 lead global universities and R&D labs (USA, Japan, Korea, Taiwan, Hong Kong, etc.), advised various technology policy makers, performed investment due diligence to leading technology investment firms and has been on the advisory boards of several startups accelerators and technology policy makers around the globe. He is on the advisory board of Smart Cities related initiatives (e.g. Omega, a NASA sustainable energy spin-off & Barcelona's I2CAT R&D) and startups incubators, and an Angel Investor.

Holds two Engineering degrees and a Master degree (applied mathematics and systems/computer engineering, from Ecole Polytechnique / Algeria and Ecole des Mines /France) with the highest distinctions. He earned a Doctorate in Computer Science (Artificial Intelligence) with highest honors from the University of Paris, was a doctoral and post-doctoral fellow at University of California at Berkeley - all awarded by age 25. Later on, completed the Executive Education in Business at Stanford Graduate School of Business. Won various prestigious academic and industry awards, including the best Engineering and best Ph. D. thesis distinctions, along with various inventions/patents.

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Riad was born and grew up in Algiers. He lived and lead R&D teams in about 8 countries across North America, Europe, Middle East, North Africa, China, South East Asia and the Far East, conducted business and deployed technology solutions in well over 50 countries and travelled to about 100 countries on 5 continents, gaining a valuable understanding of diversity across cultures and societies.

Dr. Farid Ghanem: received his Bachelor degree from the Electronics Engineering Department of Ecole Nationale Polytechnique in Algiers, Algeria and he got his M.Sc. and PhD degrees in Telecommunications from the National Institute of Scientific Research in Montreal, Canada. He joined The University of Birmingham in Birmingham, UK as an Honorary Research Fellow before moving to The University of Sheffield as a Research Associate and then to Prince Mohammad Bin Fahd University in Al-Khobar, Saudi Arabia as an Assistant Professor. In October 2011, he joined the Centre de Développement des Technologies Avancées (CDTA) in Baba Hassen, Algiers, Algeria where was the Head of the Telecom Team and then the Director of the Telecom Division. In July 2016, he switched his career to the Industry where he joined Groupe Brandt as the Telecom Products Director. His R&D interests are in Antenna Design, Wireless Communications and Telecommunications.