Final Program for HiPerNav Workshop on Image Quality Assessment Paris la Défense, 6-7 December 2018

Time	6th December 2018	7th December 2018
09 :00 – 09 :30	Welcome, Breakfast & Announcement of ESRs Working Groups on IQA	Breakfast
09 :30 – 10 :45	**Keynote 1** *Perceptually-based visual quality assessment* ***Dr Frederic Dufaux*** *LSS, CNRS, France*	**Keynote 3** *Virtual Clinical Trials : a paradigm shift in assessing clinical image quality ?* ***Dr Razvan Iordache*** *GE Healthcare, Buc, France*
10 :45 – 11 :00	Coffee Break	Coffee Break
11 :00 – 13 :00	***ESRs Collaborative Work*** ***(Phase I)***	***ESRs Groups – Final Presentations***
13:00 – 14:30	Lunch	Lunch
14:30 – 15:45	**Keynote 2** *SmartCheck : from academic research to prototype. An experience feedback* ***Dr Laurent Oudre*** *L2TI – Université Paris 13*	**Keynote 4** *Deep learning in medical computer-aided diagnosis: from concept to application* ***Pr Catalin Fetita*** *Institut Mines-Télécom, France*
15:45 – 16:00	Coffee Break	Coffee Break & Awards
16:00 – 17:00	***ESRs Collaborative Work*** ***(Phase II)***	
17:00 – 18:00		
19:30		Workshop Dinner

About Keynote Speakers

Dr Frederic Dufaux

Dr. Frederic Dufaux received the M.Sc. in physics and Ph.D. in electrical engineering from the Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland, in 1990 and 1994 respectively.

Frederic has over 20 years of experience in research. From 1990 to 1994, he was a research assistant at the Signal Processing Laboratory at EPFL. During the summer 1992, he was a visiting researcher at the Advanced Video Technology Department of AT&T Bell Laboratories, Murray Hill, NJ. In 1994 and 1995, he was a Postdoctoral Fellow at the Media Laboratory of the Massachusetts Institute of Technology, Cambridge, MA. From 1995 until 2001, he was a senior member of research staff at the Cambridge Research Laboratory of Digital Equipment Corp. / Compaq Computer Corp., Cambridge, MA. In 2001, he joined Genimedia SA (EPFL spin-off), as a principal solutions architect. From 2003 until 2010, he was a senior research fellow at the MultiMedia Signal Processing Lab at EPFL. From 2003 to 2009, he was also chief scientist of Emitall Surveillance SA, a spin-off from EPFL. In 2010, he joined CNRS as a Research Director. Since 2010, Frederic is also Editor-in-Chief of Signal Processing: Image Communication.

Frederic is a Fellow of IEEE. He currently serves as Chair of the Multimedia Signal Processing (MMSP) Technical Committee. He is an elected member of the Multimedia Signal Processing (MMSP) Technical Committee (2012-2014; 2015-2017) and the Image, Video, and Multidimensional Signal Processing (IVMSP) Technical Committee (2013-2015; 2016-2018) of the IEEE Signal Processing Society. He was Vice General Chair of ICIP 2014. He is General Chair of MMSP 2018. He will be Technical Program co-Chair of ICIP 2019. He is also the Chair of the EURASIP Special Area Team on Visual Information Processing.

Frederic has been involved in the standardization of digital video and imaging technologies for more than 15 years, participating both in the MPEG and JPEG committees. He was co-chairman of JPEG 2000 over wireless (JPWL) and co-chairman of JPSearch. He is the recipient of two ISO awards for these contributions.

Dr Laurent Oudre

Dr. Laurent Oudre graduated from Supelec, Gif-sur-Yvette, France in 2007 and received the M.Sc. degree in Communications and Signal Processing at Imperial College London, UK in 2007. He received his Ph.D. degree in Signal Processing at TELECOM ParisTech, Paris, France in 2010. From 2010 to 2013, he was a Postdoctoral Fellow in TELECOM ParisTech, Paris, France and in Ecole Normale Supérieure Paris-Saclay, Cachan, France. Since 2013, he is an Associate Professor at L2TI, University Paris 13, Villetaneuse, France. He is also an associate member of CMLA, Ecole Normale Supérieure Paris-Saclay, Cachan, France and COGNAC G, University Paris Descartes, Paris, France.

His research interests focus on signal processing (sound, image, video and biomedical), pattern recognition and machine learning. Since 2013, he has been the coordinator for several projects in bioengineering and human behaviour quantification, in collaboration with medical doctors and clinicians. He is the author of three patents in the field of biomedical signal processing and a member of the editorial board of IPOL (Image Processing On Line).

Dr Razvan Iordache

Dr. Razvan Iordache is the Global Research Manager for Women Health at GE Healthcare. He received his Master in Biomedical Engineering from “Politehnica” Institute of Bucharest, Romania and his Ph.D. degree in Signal and Image Processing from Technical University of Tampere, Finland, before joining GE in 2001 to work in R&D for breast imaging. He worked on the development of image processing and image reconstruction algorithms, and then led the development of advanced interventional applications on the latest GE mammography system, Senographe Pristina. In his current role, he drives the collaborative relationships with key opinion. He holds 20 patents and co-authored over 50 scientific articles.

Prof. Catalin Fetita

Prof. Catalin Fetita received an Engineer degree in Electronics from University POLITEHNICA (Bucharest, Romania), and a Ph.D. degree in Mathematics and Computer Science from University *Paris V - René Descartes* (Paris, France) in 1996 and 2000, respectively. In 2013 he obtained the Accreditation to Supervise Researches from University *Pierre et Marie Curie* (Paris 6) on the specialty *Engineering Science*. Since 2001, Prof. Catalin Fetita is with the ARTEMIS Department of Telecom SudParis, Institut Mines-Telecom, where he became Professor in 2016.

His research interests are focused on medical imaging and include mathematical morphology, graph-based analysis, deformable models and deep learning for image segmentation, 3D reconstruction, 3D representation and interaction. He is the author / co-author of over 90 international publications, and holds 2 patents on automated 3D human airways reconstruction and on solid lung nodules detection.

Prof. Catalin Fetita has been in charge with several technology transfer-oriented projects in the field of Computer-Aided Diagnosis (CAD) within the framework of industrial contracts or medical partnerships with Assistance Publique - Hôpitaux de Paris (APHP). He is currently the Director of the *BioMedical Image Analysis for Clinical Applications* platform of Telecom SudParis.

HiPerNav
High performance soft tissue navigation

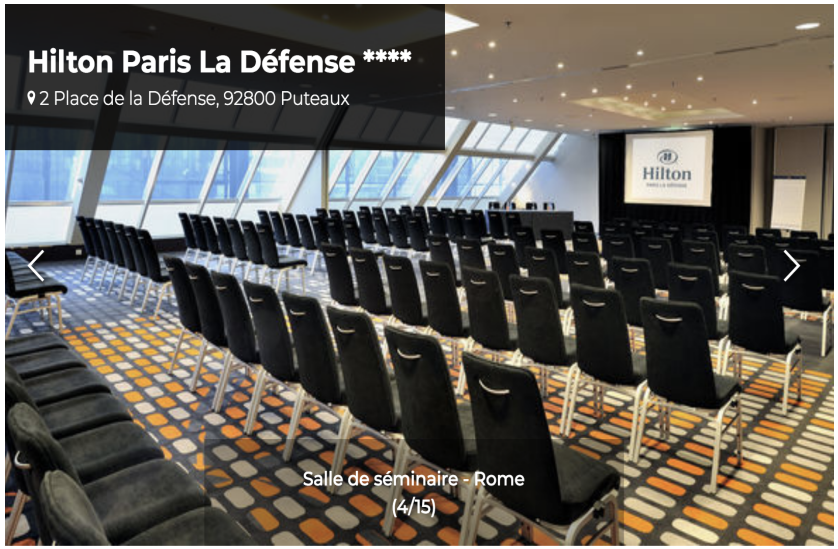
Venue for HiPerNav Workshop on 6th and 7th December 2018

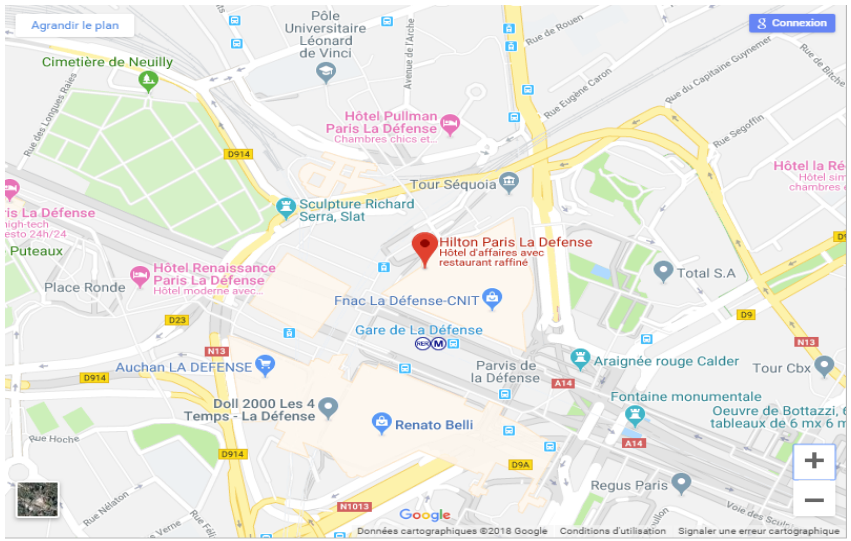
Hilton Paris La Defense

2 Place de la Défense,

92800 Puteaux

Google map link: https://goo.gl/maps/q4fzBKZFvbA2





Access to the Venue using Public Transport

Note: The following directions are for those who wish to travel via public transport rather than taxi, Uber or rented car

General Access:

Metro lines:

1

Suburban train lines:

RER train: RER A

Transilien trains : L and U

From Airports:

Paris-Charles de Gaulle Airport :

Take the train **RER B** from the airport till the stop – 'Chatelet – Les Halles'.

From there, you would need to take the train **RER A** towards the direction 'Cergy-le-Haut'/'Poissy'/'Saint-Germain-en-Laye'. Leave the train at station 'La Defense'.

Paris-Orly Airport :

Take the **Orlybus** just outside the airport till the last stop 'Denfert-Rochereau'. Take the **RER B** from there till the stop - 'Chatelet – Les Halles'.

From there, you would need to take the train **RER A** towards the direction 'Cergy-le-Haut'/'Poissy'/'Saint-Germain-en-Laye'. Leave the train at station 'La Defense'.

<u>From Train Stations</u>:

Gare du Nord (Paris Nord) :

Take the train **RER B** or **RER D** for 1 stop from there till 'Chatelet – Les Halles'.

From there, you would need to take the train **RER A** towards the direction 'Cergy-le-Haut'/'Poissy'/'Saint-Germain-en-Laye'. Leave the train at station 'La Defense'.

Gare de l'Est :

Take **metro 4** from there till the stop – 'Les Halles'.From there, you would need to take the train **RER A** towards the direction 'Cergy-le-Haut'/'Poissy'/'Saint-Germain-en-Laye'. Leave the train at station 'La Defense'.

Paris Gare de Lyon:

Take the direct train **RER A** towards the direction ‘Cergy-le-Haut’/’Poissy’/’Saint-Germain-en-Laye’. Leave the train at station ‘La Defense’.

Local organizing committee

Zohaib Amjad Khan

Mounir Kaaniche

Azeddine Beghdadi