

SMART COMPOSES 2016

Summer School on Computational Social and Behavioral Sciences



University Pierre and Marie Curie
Campus Cordeliers
15, rue de l'Ecole de Médecine, 75006 Paris

SMART

SMART Human/Machine Interactions in the Digital Society

- Laboratory of Excellence (Labex), within Idex Sorbonne Universités (SU).
- March 2012 - December 2019
- 8 participating laboratories: ISIR, LIP6, LIB, LTCI, L2E, LJLL, STMS, CHART-Lutin
- About 120 faculty and researchers.
- 6 financed projects, 4 visiting professors, 23 PhDs, 9 Post-docs and 58 Master Interns.

SMART performs research on the foundational bases in human machine interactions, in the areas of Robotics, Machine learning, Social computing, Electronics, Neurosciences, Imagery and Mathematical modeling, to facilitate the inclusion of intelligent digital artifacts in our daily life for service and assistance to humans.

SMART COMPOSES Summer School on Computational, Social and Behavioral Sciences aims at providing a multidisciplinary panorama to graduate students and post-docs in computational sciences whom research requires a background in human behavior analysis, modeling and/or synthesis. Human-machine interaction is a complex and challenging area with ramifications in almost every practical domain in the wide areas of services, healthcare or entertainment. It requires basic research in computer sciences, machine perception or robotics for the observation of human behavior and the synthesis of actions and multimodal communication capacities.

The courses in COMPOSES are given by a multidisciplinary team of instructors from the areas of social neuroscience, linguistics, psychology, sociology, medicine, mathematics, machine learning, artificial intelligence, robotics, autonomous agents, and signal processing.

The central theme of the 2016 edition of the COMPOSES summer school is health.

The school addresses the gap between fundamental concepts of human behaviors modeling and sensing, and their applications in health by discussing the role of computational approaches for designing interfaces, social/physical agents, decoding and predicting behaviors and decision-making.

Several lecturers address the relationship between mental health and psychological or physical disorders and their impact on behavior, while others focus on the rehabilitation of physical impairments. In the context of experimentation and observation of behaviors, ethics is an essential question that is discussed by one lecture. Several lectures explain imagery techniques and processing of physiological signals for understanding the underlying processes in the brain in different applications contexts.

Participants are introduced to State of the Art knowledge on different facets of Human-Machine interaction and will perform hands-on and practical courses. Hands-on sessions include introduction to cognitive computing (smart objects), interpersonal synchrony, automatic facial expression analysis, experimental psychology, light touching and artificial agents in autism. Hands-on are sessions held at UPMC, INSEAD-Sorbonne Behavioural Lab, Pitié-Salpêtrière Hospital and "Cité des Sciences et de l'Industrie".

Industrial applications are discussed during the special session co-organized with Soft Bank Robotics (formerly Aldebaran Robotics). In particular, presentations focus on recent industrial challenges in human-robot interaction for the design of socially assistive robots. This session includes live demonstrations of robots (dialog, emotion recognition, learning).

Organizers

Raja Chatila (CNRS)

SMART Labex Director

Mohamed Chetouani (UPMC)

SMART Labex Deputy Director

Adela Kabaklija (CNRS)

Financial Officer

Zoitsa Siaplaoura-Karagkouni (UPMC)

Coordination Officer

Michèle Vié (UPMC)

Local organization

In cooperation with

Christine Boutet-Rixe (IUIS)

Liane Schmidt (INSEAD)

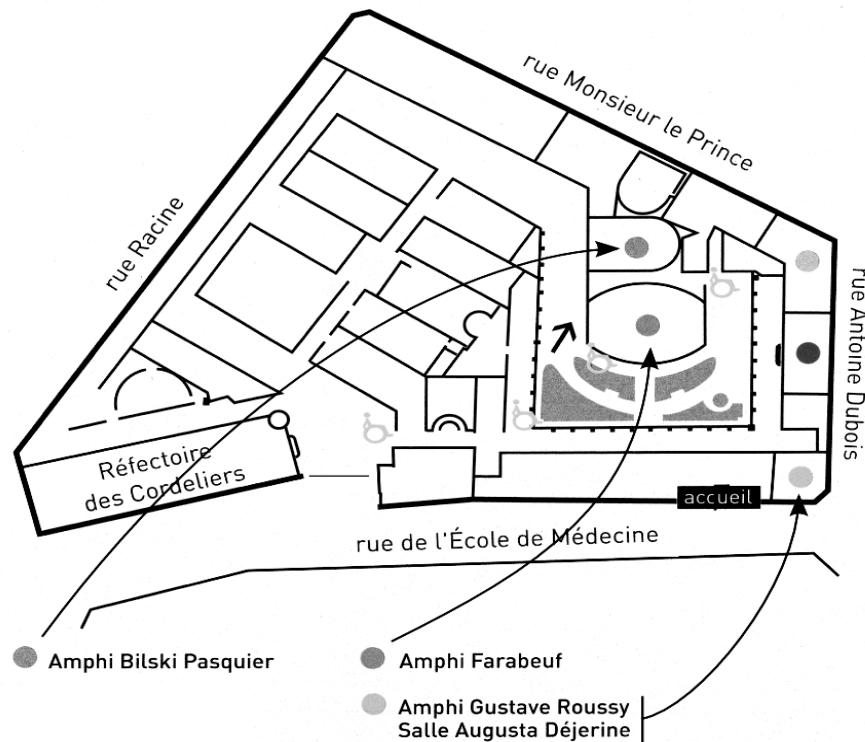
Conference Venue

The conference venue is located in the center of Paris (in the Quartier Latin), in the Cordelier Campus of the University Pierre and Marie Curie, located on 15 rue de l'Ecole de Médecine, in the 6th district of Paris.



The registration desk is in the entrance hall. From there, you will be directed towards the auditorium **Bilski Pasquier**.

Campus des Cordeliers



Program

SMART School on Computational Social and Behavioral Sciences

	Monday September 5	Tuesday September 6	Wednesday September 7	Thursday September 8	Friday September 9
9:00-10:00		Nathalie George	David Cohen	Gianluca Manzo	Vincent Guigue
10:00-10:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30-11:30		Agnes Roby-Brami	Liane Schmidt	Amit Kumar Pandey	Nathanaël Jarrassé
11:30-12:30		Nadia Berthouze	Benoît Bardy	Yannis Demiris	Closing session
		Lunch Break (Buffet)	Lunch Break (Buffet)	Lunch Break (Lunch Box)	Departure
13:30	Arrival/Introduction				
14:00-15:00		Charles Lenay	Hands-on Session	SoftBank Robotics Session	
	Serge Uzan				
15:00-16:00	Hands on Presentations	Dirk Heylen			
16:00-16:30	Coffee Break	Coffee Break			
16:30-17:30	Vincent Hayward	Thierry Chaminade			
17:30-18:30	Student Pitches (2min)	Student Pitches (2 min)			
18:30-19:30					
19:30-20:30				Cocktail	

Softbank Robotics Session

Location

43 rue du Colonel Pierre Avia
75015 Paris

How to get there?

Subway (Métro): line 12, station Corentin Celton

Cocktail

Location

Université Pierre et Marie Curie (UPMC)
4 place Jussieu, 75005 Paris

How to get there?

Subway (Métro): line 7 or 10, station Jussieu

More details on page 16

Hands-on Sessions

Cognitive Computing: the design of Smart things (LUTIN)

Contact: [Charles Tijus](#)

Location

Laboratoire des Usages en Technologies
d'Information Numérique (LUTIN)
Cité des Sciences et de l'Industrie de la Villette
30 avenue Corentin Cariou
75019 Paris

How to get there?

Subway (Métro): line 7, station « Porte de la
Villette »
Tramway T3b (Porte de Vincennes - Porte de la
Chapelle)
Stop « Porte de la Villette »

Interpersonal synchrony: The SyncPy Library (ISIR)

Contact: [Giovanna Varni](#)

Location

Université Pierre et Marie Curie (UPMC)
4 place Jussieu, 75005 Paris

How to get there?

Subway (Métro): line 7 or 10, station Jussieu

Automatic facial expression analysis (ISIR)

Contact: [Kévin Bailly](#)

Location

Université Pierre et Marie Curie (UPMC)
4 place Jussieu, 75005 Paris

How to get there?

Subway (Métro): line 7 or 10, station Jussieu

Behavioural Lab (INSEAD)

Contact: [Liane Schmidt](#)

Location

6 rue Victor Cousin, 75005 Paris

How to get there?

Subway (Métro): line 4 or 10, station Odeon
RER B: Stop Luxembourg

Light Touch for balance (ISIR)

Contact: [Waël Bacht](#)

Location

Université Pierre et Marie Curie (UPMC)
4 place Jussieu, 75005 Paris

How to get there?

Subway (Métro): line 7 or 10, station Jussieu

Artificial agents in autism (Hospital Pitié-Salpêtrière)

Contact: [Salvatore Anzalone](#)

Location

47-83, boulevard de l'Hôpital
Bâtiment Georges Heuyer
75013 Paris

How to get there?

Subway (Métro):
line 5, station Saint-Marcel or Gare d'Austerlitz
line 6, station Chevaleret

Lectures

- Benoît Bardy (EuroMov, University of Montpellier) (11h30-12h30) September 7
[The embodiment of mental health in human - robot interactions](#)
- Nadia Berthouze (UCL) (11h30-12h30) September 6
[Bringing affect into technology for chronic pain physical rehabilitation](#)
- David Cohen (UPMC, Hôpital Pitié Salpêtrière) (9h-10h) September 7
[Behavior and interaction imaging in early psychopathology](#)
- Thierry Chaminade (Institut des Neurosciences la Timone, CNRS) (16h30-17h30) September 6
[Investigating neurotypical and pathological neural bases of social cognition with artificial agents](#)
- Yannis Demiris (Imperial College) (11h30-12h30) September 8
[Human-Robot Collaboration: Personalisation and Developmental Aspects](#)
- Nathalie George (ICM, CNRS / Inserm / UPMC) (9h-10h) September 6
[How the human brain decodes social signals from faces](#)
- Vincent Guigue (UPMC- LIP6) (9h-10h) September 9
[Machine Learning techniques for physiological signal classification](#)
- Vincent Hayward (UPMC - ISIR) (16h30-17h30) September 5
[Tactile illusions: their practical and theoretical significance](#)
- Dirk Heylen (University of Twente) (15h-16h) September 6
[Mediating Social Touch](#)
- Nathanaël Jarrassé (UPMC - ISIR) (10h30-11h30) September 9
[Control approaches for upper-limb prosthetics](#)
- Charles Lenay (UTC, CosTech) (14h-15h) September 6
[Technical mediation of social cognition: experimental study of perceptual interactions](#)
- Gianluca Manzo (Paris-Sorbonne, GEMASS) (9h-10h) September 8
[Agent-based Models of Social Dynamics: Principles, Examples, and Challenges](#)

Amit Kumar Pandey

(10h30-11h30) September 8

[Socially Intelligent Robots, the next generation of Consumer Robots: Where we are, the needs and the R&D challenges?](#)

Agnès Roby-Brami (UPMC - ISIR)

(10h30-11h30) September 6

[Health and technology: ethical issues related to behavioral observation and experimentation](#)

Liane Schmidt (INSEAD-Sorbonne Behavioural Lab)

(10h30-11h30) September 7

[Does Red Bull Give You Wings? Understanding Placebo Effects of Energy Drinks on Mental Effort](#)

Serge Uzan (University Cancer institute Pierre et Marie Curie)

(14h-15h) September 5

[Use of guidelines and heterogeneity of decision for treatments in oncology](#)

Participants

Last name	First name	Institution	Department	City -Country	
AIGRAIN	Jonathan	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
ANZALONE	Salvatore Maria	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
BAILLY	Kévin	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
BANG	Sang Hun	Université Paris 8	Laboratoire Cognitions Humaine et Artificielle (CHArt)	Saint-Denis	FR
BASSAN	Nicolas	University of Grenoble Alpes		St-Martin-d'Hères	FR
BENNOUR	Sami	National Engineering School of Sousse University of Sousse	Mechanics Laboratory of Sousse Department of Advanced Mechanics	Sousse	TN
BENOIT	Leila				
BIANCARDI	Beatrice	Télécom Paris-Tech	LTCI	Paris	FR
BIETTI	Lucas M.	University of Neuchâtel	Institute of Work and Organizational Psychology	Neuchâtel	CH
BINTI ABD GAUS	Yona Falinie	Brunel University London	Electronic and Computer Engineering	Middlesex	UK
BOCHEREAU	Serena	Université Pierre et Marie Curie (UPMC)	Institut des systèmes intelligents et de robotique (ISIR)	Paris	FR
BOREL	Natacha	Université Grenoble Alpes	Laboratoire d'informatique de Grenoble (LIG)	Grenoble	FR
CAFARO	Angelo	LTCI CNRS - Télécom ParisTech	Traitement Interprétation des Images (TSI)	Paris	FR

Last name	First name	Institution	Department	City -Country	
CAMORS	Damien	Institut Catholique d'Arts et Métiers (ICAM)	Humanities Department	Toulouse	FR
CASTANON-PUGA	Manuel	Universidad Autonoma de Baja California	Facultad de Ciencias Quimicas e Ingenieria	Tijuana	MX
CHABY	Laurence	Université Paris-Descartes	Institut des systèmes intelligents et de robotique (ISIR)	Paris	FR
CHAIPANHA	Laddaporn	Université Paris 8	Laboratoire Cognitions Humaine et Artificielle (CHArt)	Saint-Denis	FR
CONINX	Alexandre	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
CORMONS	Lucie	Université Grenoble-Alpes	Laboratoire Inter-universitaire de Psychologie (LIP)	Grenoble	FR
DAPOGNY	Arnaud	Université Pierre et Marie Curie (UPMC)	Institut des systèmes intelligents et de robotique (ISIR)	Paris	FR
DAVAT	Ambre	Ecole Ingénieurs Energie Eau Environnement (Ense3)	Signal Image Communication Multimédia (SICOM)	Grenoble	FR
DELMAS	Hugues	Université Paris 8	Département de Pscychologie	Paris	FR
DERMOUCHE	Soumia	Télécom ParisTech/ CNRS	Laboratoire Traitement et Communication de l'Information (LTCI)	Paris	FR
DUMONT	Emmanuel	UTC & Université Pierre et Marie Curie (UPMC)	IUIS chaire E-Biomed ISIR & BMBI	Paris	FR
DUVAL	France	Université de Lorraine	Laboratoire InterPsy	Nancy	FR
ELLEUCH	Fatma	Université Pierre et Marie Curie (UPMC) & CNAM	CHART/LUTIN/CNAM	Paris	FR
FANG	Sheng	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR

Last name	First name	Institution	Department	City -Country	
FLORES-PARRA	Josue-Miguel	Universidad Autónoma de Baja California	Faculty of chemical and engineering sciences	Tijuana	MX
FLUTURA	Simon	University of Augsburg	Informatics	Augsburg	DE
GAO	Yuan	Uppsala University	Department of Computer Science	Uppsala	SE
GARGOT	Thomas	Hopital Pitié Salpêtrière - Univ. Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
GUEDJOU	Hakim	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
HAJLAOUI	Ayoub	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
HARTCHER	Jess	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
HASSAN	Teena Chakkalayil	Fraunhofer Institute for Integrated Circuits IIS	Electronic Imaging	Erlangen	DE
HE	Quin Qian	University of Twente	Behavioural Management and Social Sciences (BMS)	Enschede	NL
HUPONT	Isabelle	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
IBEN HOURIA	Asma	Université de Montpellier/CNRS	Montpellier Laboratory of Informatics Robotics and Microelectronics (LIRMM)	Montpellier	FR
JANOWSKI	Kathrin	Augsburg University	Human Centered Multimedia	Augsburg	DE
JANSSOONE	Thomas	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
JANUS	Sarah	University of Twente	Behavioural Management and Social Sciences	Enschede	NL
KARABAS	Özer	Marmara University	Psychiatry Department	Istanbul	TR

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KASTRIN	Andrej	Faculty of Information Studies	Laboratory of Data Technologies	Novo mesto	SI
KILLERMANN	Kira	University of Twente	Behavioural Management and Social Sciences (BMS)	Enschede	NL
KOLKMEIER	Jan	University Twente	Human Media Interaction	Enschede	NL
KRISTANTI	Tanti	Université Paris 4		Paris	FR
KROEZE	Karel	University of Twente	Behavioural Management and Social Sciences (BMS)	Enschede	NL
LEFEVRE	Amaury	University of Twente	Behavioural Management and Social Sciences (BMS)	Enschede	NL
LI	Songjiang	Peking University	Key laboratory of Machine Perception	Beijing	CN
LIANG	Yingsi	Université Paris 4		Paris	FR
LIU	Mengze	Key Lab of Machine Perception	Department of Machine Intelligence	Beijing	CN
LUCE-VAYRAC	Pierre	Université Pierre et Marie Curie (UPMC)	Institut des systèmes intelligents et de robotique (ISIR)	Paris	FR
MAGNANI	Romain	CNRS/ Grenoble INP/Inria Grenoble Rhône-Alpes	Laboratoire d'informatique de Grenoble (LIG)	Grenoble	FR
MALAISE	Adrien	INRIA Nancy Grand-Est	Equipe LARSEN	Villers-lès-Nancy	FR
MILOUR	Alice	Université Paris 4		Paris	FR
MUTLU	Özgür	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique	Paris	FR
NAJAR	Anis	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
NGUYEN	Duc-Canh	Université de Grenoble/ CNRS	Lab. Grenoble Images Parole Signal Automatique (GIPSA)	Grenoble	FR

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NIAMIR	Leila	University of Twente	Behavioural Management and Social Sciences	Enschede	NL
OKER	Ali	Télécom ParisTech	Traitement Interprétation des Images (TSI)	Paris	FR
PALESTRA	Giuseppe	University of Bari	Department of Computer Science	Bari	IT
PELACHAUD	Catherine	Télécom-ParisTech/ CNRS	Laboratoire Traitement et Communication de l'Information (LTCI)	Paris	FR
PERUSSEAU-LAMBERT	Alix	CEA-LIST/ Université Pierre et Marie Curie (UPMC)	DIASI-LISA / Institut des Systèmes Intelligents et de Robotique (ISIR)	Gif-sur-Yvette	FR
PETTERSSON	Liselott	INSEAD	INSEAD-Sorbonne Universités Behavioral Lab.	Paris	FR
PODDA	Jessica	Istituto Italiano di Tecnologia - Italian Institute of Technology	CMON Unit (Cognition Motor and Neuroscience)	Genova	IT
RAYATDOOST	Soheil	University of Geneva	Science	Geneva	CH
RIBEIRO	João	Faculty of Sciences of the University of Lisbon	Department of Informatics	Lisboa	PT
RITSCHER	Hannes	University of Augsburg	Department of Computer Science	Augsburg	DE
ROCHAT	Nicolas	Université Paris 8	Laboratoire Cognitions Humaine et Artificielle (CHArt)	Saint-Denis	FR
RODRIGUEZ LERA	Francisco Javier	University of León	Mechanical Computer Science and Aerospace Engineering Department	León	ES
SALAM	Hanan	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
SALANVILLE	Kévin	CNRS & Univ. Pierre et Marie Curie (UPMC) / Univ. Paris-Saclay	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR

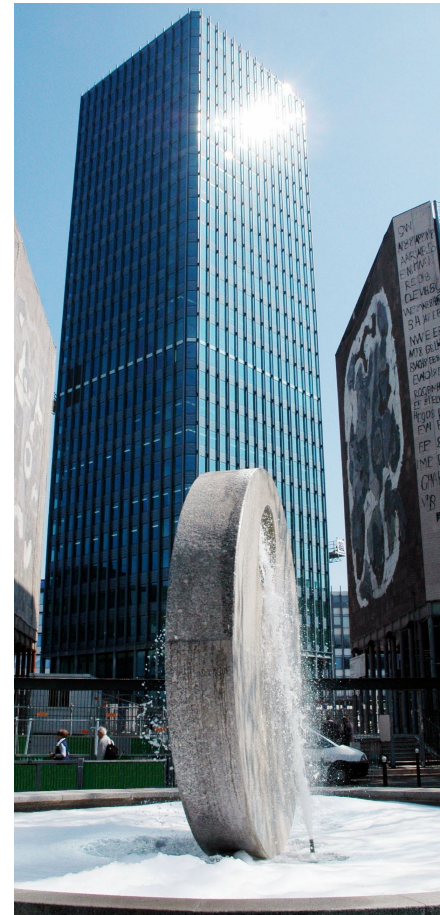
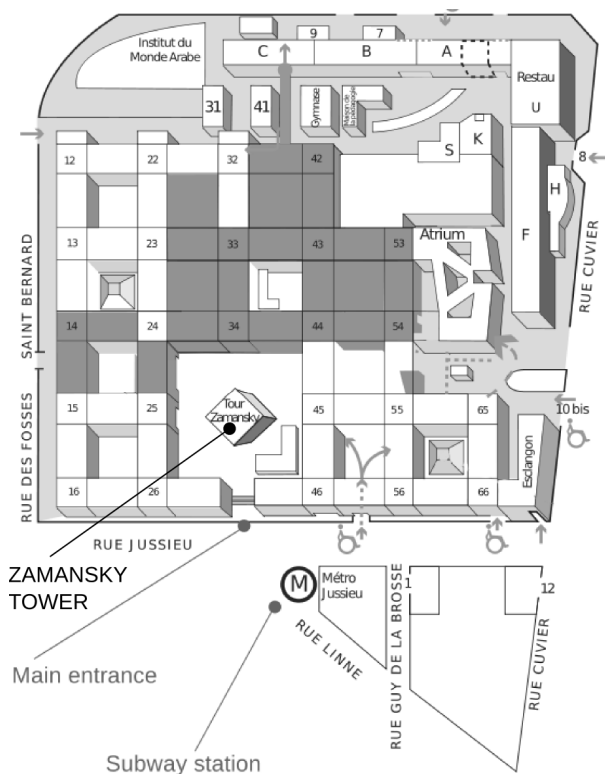
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SCHORK	Daniel	Augsburg University	Chair for Human Centered Multimedia	Augsburg	DE
SEIXAS PEREIRA	Letícia	Université Paris 8	Laboratoire Cognitions Humaine et Artificielle (CHArt)	Saint-Denis	FR
STEINER	Alexis	Hôpital Pitié-Salpêtrière	Institut du Cerveau et de la Moelle épinière - ICM	Paris	FR
TAJTELBOM	Ludmilla	Université Pierre et Marie Curie (UPMC)	Laboratoire d'informatique de Paris 6	Paris	FR
TSVETANOVA	Liliya	CNRS/ Grenoble INP/Inria Grenoble Rhône-Alpes	Laboratoire d'informatique de Grenoble (LIG)	Grenoble	FR
VALERIAN	Guelpa	Université de Franche-Comté	FEMTO-ST, Dépt Automatique et Systèmes Micro-Mécatroniques (AS2M)	Besançon	FR
VAN DEN BERG	Lisanne	University of Twente	Behavioural Management and Social Sciences	Enschede	NL
VAN DEN BERG	Stephanie	University of Twente	Behavioural Management and Social Sciences (BMS)	Enschede	NL
VARNI	Giovanna	Université Pierre et Marie Curie (UPMC)	Institut des Systèmes Intelligents et de Robotique (ISIR)	Paris	FR
VROON	Jered	University of Twente	Human Media Interaction	Enschede	NL
WILLEMSE	Christian	University of Twente	EEMCS / Human Media Interaction	Enschede	NL
WITTEVEEN	Annemieke	University of Twente	Behavioural Management and Social Sciences	Enschede	NL
YANG	Bikun	Pekin University	Key laboratory of Machine Perception	Beijing	CN
YOUSFI	Elsa	Université Paris	Psychologie	Saint-Denis	FR

Cocktail

The cocktail party will be held on Thursday 8th September at 07:30 pm on the 24th floor of the Zamansky Tower in the Pierre et Marie Curie University.

Location: 4, place Jussieu 75005 Paris

Subway station: Jussieu



You can reach the Campus Jussieu from the conference place either by subway using the line 10 between Odéon and Jussieu or by walk by following the street “Rue des Écoles”.





Labex SMART

CC 173

4, place Jussieu

75005 Paris, France

contact@smart-labex.fr

<http://www.smart-labex.fr/>

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