

## Scientific committee and invited speakers

### Scientific committee



**Philippe Robert** (health domain) is professor of Psychiatry at the Nice School of Medicine, Director of the Nice Memory Centre for Care and Research (CMRR), Director of the Cognition, Behaviour & Technology Unit (CoBTeK) at the University of Nice-Sophia Antipolis, and coordinator of the French National Alzheimer data bank. His domains of expertise include behavioral and psychological symptoms of dementia, apathy assessment and treatment, and the use of new technologies for diagnosis and stimulation in elderly people. Philippe Robert is with Nicholas Ayache the coordinator of the IDEX<sup>Jedi</sup> MNC<sup>3</sup> project.



**Valeria Manera** (health and research domain) is a postdoctoral fellow at the INRIA (STAR team) and the CoBTeK unit of the University of Nice-Sophia Antipolis (France). She has a Master degree in Clinical Psychology and a PhD in Cognitive Science. She spent long research periods at the University of Leuven (Belgium) and at the Stanford Psychophysiology Laboratory (California). Her domains of expertise include biological motion perception, emotion recognition and regulation in different neuropsychiatric pathologies, the use of Virtual Reality in older adults, and dementia prevention.



**Joseph Sfeir** (business domain) is Director of Business Development at LitePoint, California. Joseph brings 10 years of international experience in engineering, marketing and business development for high tech companies. He is also an active investor in medical startup. He holds an MBA and a degree in Electronic engineering.



**Nicholas Ayache** (technology domain) is Research Director at INRIA where he leads the ASCLEPIOS project-team whose research activities are focusing on the Analysis and Simulation of Biomedical Images. This includes the analysis of medical and biological images with advanced geometrical, statistical, physical and functional models, the simulation of physiological systems with computational models built from biomedical images and other signals, and the application of these tools to medicine and biology to better assist prevention, diagnosis and therapy of diseases. Nicholas Ayache is with Philippe Robert the coordinator of the IDEX<sup>Jedi</sup> MNC<sup>3</sup> project.



**François Brémond** (technology domain) is a Research Director at INRIA Sophia Antipolis. He created the STARS team on the 1st of January 2012. He obtained his Master degree from ENS Lyon. He has conducted research work in video understanding since 1993 both at Sophia-Antipolis and at USC (University of Southern California), LA. In 1997 he obtained his PhD degree from INRIA in video understanding and he obtained in 2007 his HDR degree (Habilitation à Diriger des Recherches) from Nice University on Scene Understanding: perception, multi-sensor fusion, spatio-temporal reasoning and activity recognition. He is co-director of CoBTeK team.

## Guest speakers



**Thomas M. Krummel** (health domain, Biodesign expert) is Emile Holman Professor and Chair Emeritus with the Department of Surgery at Stanford University School of Medicine, as well as Co-Director of the Stanford Byers Center for Biodesign and Chair of the international Scientific Committee of the IHU at IRCAD in Strasbourg. His research interests are in fetal healing, cellular and biochemical mechanisms, and surgical innovation. He has also been a pioneer in the application of information technology to enhance the quality and safety of surgical education and reduce its cost. In collaboration with computer scientists, engineers and industry he has participated in the development of several surgical trainers and has begun the systematic study of their use and efficacy in surgical education. For this work he received a 1999 Smithsonian Information Technology Innovators Award.



**Florence Askenazy** (health domain) is professor in pediatric psychiatry at the University of Nice, head of the University Department of Child and Adolescent Psychiatry (SUPEA) at Children's Hospitals of Nice CHU-Lenval, and director of the Autism Resources Center (CRA PACA) of Nice. She coordinates the research group of pediatric psychiatry within the team CoBTeK. She is the PI of several national academic multicentric projects, and works on clinical, translational and ICT research in the domains of autism, early onset schizophrenia and psychopharmacology.



**Jeanick Brisswalter** is full professor at the university of Nice Sophia Antipolis, in France and Vice president of the research council of the University of Nice Sophia Antipolis. Following a PhD in Physiology in Paris V University in France, J Brisswalter served as researcher in the research department of the National Institute of Sports Expertise and Performance (INSEP). He integrates the University as full professor at the University of Poitiers in 1994. Then, he was Full Professor at the University of Toulon and Head of the Sports Ergonomics laboratory for over 10 years, before joining the University of Nice Sophian Antipolis where he was head of the laboratory of Human Performance Education and Health until 2014. J Brisswalter has authored over 150 peer reviewed journal articles on physiological and cognitive factors improving sports performance. His research interests include locomotion efficiency, interaction between cognitive and physiological processes, recovery strategies, performance in Masters athletes and more recently nutritional aspects of cognition during exercise.



**Marco Lorenzi** (technology domain) is a tenured research scientist (CR2) at Université Côte d'Azur, Inria Sophia Antipolis. He obtained his PhD from the University of Nice in 2012, and from 2014 to 2016 worked as research associate in the Centre for Medical Image Computing of the Biomedical Engineering Department of University College London, UK. His research interest is in the development of computational and statistical methods for the joint analysis of biomedical data and brain images, with application to the study of neurodegenerative disorders. He is also interested in the statistical analysis of clinical trials data, time-series analysis, and in the latest advances in machine learning for the analysis of high dimensional data.



**Julien Gaertner** has a Ph.D in History. He is now project manager at the University of the Côte d'Azur (France), and lecturer in screenwriting and film studies at the Paris Institute of Political Studies. He's also the author and director of several documentary and feature films.



**Rémy Ramadour** (technology and business domain) holds a Master degree (2006) in Philosophy and a Master degree in Mathematics (2011). He is the CEO of the Start-up Ullo developing technology for the eldelies. He has ongoing collaborations with the Inria, the University of La Rochelle, and the Cobtek laboratory. His topics of research include signal processing, cognitive sciences and IoT for health.



**Baptiste Fosty** is the CEO of Ekinnox, a startup stemming from Inria Sophia Antipolis. With a master degree in Artificial Intelligence and 5 years spent in STARS team of Inria, he created Ekinnox to develop and commercialize a medical device to improve the treatment of patients in rehabilitation by simplifying gait analysis. He is in charge now of the businesses aspects (strategy, finance, commercial, marketing, administration) while his main partner, Méline Gautier, is responsible for the technical development of the solution.



**Frank Fagan** is Associate Professor of Law and a member of the LegalEDHEC research center. He specializes in law and economics. His writing spans the laws of contracts, torts, crimes, taxation, and corporations, and uses standard economic theory, econometrics, and big data prediction techniques. He has written extensively on the timing of lawmaking. His book, *Law and the Limits of Government*, is viewed as a leading treatment of the subject. His work in progress is varied, and considers regulatory approaches to contracts, the importance of the subconscious in compliance behavior, law's treatment of automated bargaining, and the role of secrecy in agreements to settle litigation. Papers can be viewed at <http://ssrn.com/author=468606>



**Guillaume Sacco** is geriatrician in the Memory Center of Nice Sophia-Antipolis University Hospital. He also teach geriatrics and general practice in the medicine faculty and is a medical expert for the CIU-santé (Innovation and uses in Health). He actually do his thesis with the CoBTek Research team. The theme of this work is the interest of numeric technology to assess et treat frail older people.



**Laëtitia Guillemetz** has a master degree in Biotechnology from the University of Montpellier. She is now project manager at AXONIC, a subsidiary of the MXM group. AXONIC develops devices for neurostimulation. They develop research projects in collaboration with the CHU of Nice and the IPMC of Sophia Antipolis.



**Michal Koperski** is a PhD Candidate at INRIA STARS team. He will defend his thesis in October 2017. His research focus is Computer Vision and Action Recognition. During his PhD he proposed new action recognition methods and published 8 scientific papers in international conferences and journals. Michal's methods have been applied to patient monitoring systems, Michal is closely collaborating with Toyota company where he integrates action recognition methods to robotic system for patient monitoring.