

Paul Verschure is an ICREA Research Professor in the Department of Information and Communication Technologies at Universitat Pompeu Fabra (UPF).



He received both his Master and Ph.D. in psychology. He has pursued his research at different leading institutes: the Neurosciences Institute and the Salk Institute (both in San Diego), the University of Amsterdam, University of Zurich and the Swiss Federal Institute of Technology-ETH and currently with ICREA and UPF.

As director of SPECS, a multidisciplinary group of 30 pre-doctoral, doctoral and post-doctoral researchers that includes physicists, psychologists, engineers and computer scientists, Paul works on biologically constrained models of perception, learning, behaviour and problem solving that are applied to wheeled and flying robots, interactive spaces and avatars. Dr. Verschure's aim is to find a unified theory of mind, brain and body through the use of synthetic methods and to apply such a theory to the development of novel cognitive technologies. He has pioneered novel VR based augmented feedback systems that are applied to the rehabilitation of a number of pathologies including stroke, TBI and Alzheimer's disease. Dr. Verschure has developed interdisciplinary research in the domains of technology, cognitive science and humanities. The following list describes the research fields where he has worked most intensely: Cognitive Sciences and interactive systems, Artificial Intelligence, Computational Neuroscience, Mixed/Virtual reality, Hybrid Systems, Robotics, Psychophysiology, Neuro-rehabilitation, Creativity and Interaction.

Editorial Board of *Acta Neurobiologiae Experimentalis* (Polish Neuroscience Society). Conference Chair for the Barcelona Cognition, Brain & Technology Summer School 2008, 2009, 2010, 2011, 2012, 2013 and 2014. Advisory Board Member for: Ernst Strüngmann Forum 2011 and the 2010 & 2011 CCL Linnaeus Environment (Cognition, Communication and Learning). Programme Committee for: CSN School on Neurophysiology Techniques'2011, Capo Caccia Cognitive Neuromorphic Engineering Workshop'10 and ECCS 2009, 2010 & 2011 (European Conference on Complex Systems). Reviewer for *Nature*, *Science*, *Proceedings Royal Society of London*, *IEEE Neural Networks*, *Adaptive Behaviour*, *Autonomous Robots*, *Behavioural Brain Research*, *PhysicaD*, *Robotics and Autonomous Systems*, *Pragmatics and Cognition*, *Neural Networks*, *Neural Computation*. Reviewer for the Medical Research Council (UK), Israeli Science Foundation, Volkswagen Foundation, Netherlands Organization for Scientific Research, Science & Technology Foundation of Japan, French Ministry of Research & Education, German Ministry of Research & Education, European Commission (5th-6th & 7thFP).

Dr. Verschure has published over 250 peer-reviewed papers in leading scientific journals including *Nature*, *Science*, *Neuron*, *PLoS Biology* and *PLoS Computational Science*, *Proceedings of the National Academy of Sciences USA*, the *Royal Society London* and *Public Library of Science*. Holds 2 patents. Relevant technology projects include Ada: Intelligent Space at Expo'02 (Switzerland). SPECS is the 1 of only 6 labs worldwide to receive the European humanoid platform iCub in the first iCub competitive call.