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| **Partner 1**  (Project Coordinator) | **Organisation name / Department:**    **Middlesex University London,**  **School of Science and Technology** |
| **Expertise:** Middlesex University is a very dynamic emerging institution continuously growing its research expertise. Our Department of Computer Science is the 13th largest in size in the whole of the UK. This research project will be supported by the *Research Group on the Development of Intelligent Environments* (http://ie.cs.mdx.ac.uk/home/) with collaboration from the *Foundations of Computing Science Research Group*, the *Networks and Distributed Systems Laboratory* and the *Biophysics and Cancer lab*.  **Florian Kammüller**, holds a PhD from the University of Cambridge and a Habilitation from Technische Universität Berlin. He is an expert on applying formal techniques to security and software engineering. He has conducted various research projects with international collaborations exploring Security Engineering ranging from modelling of human behaviour over distributed active object programming to verifying secure protocols for the internet.  **Prof. Juan Carlos Augusto**, Head of the Research Group *Research Group on Development of Intelligent Environment,* has contributed 200+ publications, given more than a dozen invited talks and tutorials, chaired several conferences in the area and is Editor in Chief of one of its main journals. He participated in 14 research projects (P.I. for six of them), and advises the EU (including the ARTEMIS program for embedded systems) on a yearly basis as area expert and as external referee.  **Richard Bayford** is the Director of Biophysics at the Middlesex University Centre for Investigative Oncology, Professor of Bio-Modelling and Informatics and Honorary Senior Lecturer in the UCL Department of Electrical and Electronic Engineering. His expertise is in bio-modelling, tele-medical systems, instrumentation and biosensors. He is currently leading a research project on biosensors for detection of Alzheimer’s.  **Simon Jones**, is a Senior Lecturer in the Department of Computer Science and an expert in ethical issues related to the use of computers in society. He led the creation of the eFRIEND ethical framework to guide development of Intelligent Environments (Jones et al 2015).  **Taolu Chen,** is a Senior Lecturer in the Department of Computer Science and an expert on quantitative model checking.   1. J. C. Augusto, and M. J. Hornos. Software Simulation and Verification to Increase the Reliability of Intelligent Environments, *Advances in Engineering Software*, Volume 58, Pages 18-34, April 2013, Elsevier. 2. Diane J. Cook, Juan C. Augusto, and Vikramaditya R. Jakkula. Ambient Intelligence: applications in society and opportunities for AI. *Pervasive and Mobile Computing*. 5:277-298, 2009. Elsevier. Note: This is one of the highest cited papers on Ambient Intelligence. 3. J. Boender, M. Georgieva Ivanova, F. Kammüller and G. Primiero. Modeling Human Behaviour with Higher Order Logic: Insider Threats. *Socio-Technical Aspects of Security and Trust*, *STAST2014, co-located with CSF’14 in the Vienna Summer of Logic, IEEE 2014*. 4. F. Kammüller and C. W. Probst. Combining Generated Data Models with Formal Invalidation for Insider Threat Analysis, *IEEE Security and Privacy Workshops, SPW, WRIT’14*. 2014. An extended version has been accepted for a Special Issue of the IEEE Systems Journal on Insider Threats. 5. R. Bayford and A.Tizzard. Bioimpedance imaging: an overview of potential clinical applications. *Analyst*, 2012,137, 4635-4643. | |
| **Role in project:** We will manage the project (WP1) and also coordinate WP4 (including the deploying of the pilots), and coordinate ethics. We will also have important technical participation including on the design and implementation for WP2 and WP3 and on Impact (WP5). | |