Shufan completed her PhD at the Advance Processor Technologies Group from September 2006 to March 2010 at the University of Manchester, where she was involved in inventing a revolutionary biological chip in the SpiNNaker project. she also worked on the Intrinsically Motivated Cumulative Learning Versatile Robots (IM-Clever) project at the University of Ulster from August 2010 until October 2012 as a postdoc research associate for building a novel inhibitory control system using multiple FPGAs.  She joined the University of Wolverhampton (Nov/2012-Aug/2017) as a senior lecturer and led a research team, working on artificial neuron network implementation in hardware for an assistive tumor detection system on Ultra scale FPGAs. Traditional AI system were based on human experts’ defined the tasks and evaluated by the predefined metrics, which leads to an unstable system when exposed on context changes and dynamic environment. To tackle these situations, her research interest is in developing the capability of incrementally perceiving and able to learn on their own, and acting accordingly in real time to achieve autonomous.  She also prototypes those systems based on ASIC and FPGAs.