

## Kevin Warwick – A Brief Professional CV

Prof./Dr. Kevin Warwick was born on 9.2.1954 in Coventry, UK. Currently, he is an Emeritus Professor at both Reading and Coventry Universities, UK. He is Visiting Professor at the Czech Technical University in Prague, the University of Strathclyde, Bournemouth University and the University of Reading and during 2004 was Senior Beckman Fellow at the University of Illinois at Urbana-Champaign, USA. He is also on the Advisory Boards of the Instinctive Computing Laboratory, Carnegie Mellon University and the Centre for Intermedia, University of Exeter. He is an Active Member of the European Academy of Sciences in the class of Technical Science since March 2014, a Fellow of the City & Guilds of London Institute since 1988, a Chartered Engineer and a Fellow of the Institution of Engineering and Technology since 1985.



Kevin has been awarded higher doctorates (DScs) both by Imperial College and the Czech Academy of Sciences, Prague. He was made an Honorary Member of the Academy of Sciences, St.Petersburg and received The IEE Achievement Medal in 2004. He also received the University of Malta medal from the Edward De Bono Institute in 2005. He has been awarded Honorary Doctorates (DScs) by 8 UK Universities and one international University. In 2000 Kevin presented the Royal Institution Christmas Lectures, entitled “The Rise of The Robots”. These lectures were repeated in 2001 in a tour of Japan, China and Korea. Prior to joining Coventry he was Professor of Cybernetics at the University of Reading. His main research areas are artificial intelligence, control, robotics and biomedical engineering. He left school to join British Telecom, at the age of 16. At 22 he took his first degree at Aston University, followed by a PhD and a research post at Imperial College, London. He subsequently held positions at Oxford, Newcastle, Warwick, Reading and Coventry universities.

He has received a number of awards among which the most important ones are:

- a/. Future of Technology award, MIT, in 2000.
- b/. The IET Mountbatten medal in 2008.
- c/. The Ellison-Cliffe medal from the Royal Society of Medicine in 2011.

Kevin’s experiments into implant technology led to him being featured as the cover story on the US magazine, ‘Wired’. He achieved the world’s first direct electronic communication between two human nervous systems, the basis for thought communication. Another project extended human sensory input to include ultrasonics. He also linked his nervous system with the internet in order to control a robot hand directly from his neural signals, across the Atlantic Ocean. In another project, working with surgeons at the John Radcliffe hospital, Oxford, he has pioneered the use of a new deep brain stimulation device, based on Artificial Intelligence, to assist in the treatment of Parkinson’s Disease.

Some of his latest research has involved a collaborative project with Professor Tipu Aziz of John Radcliffe Hospital, Oxford and Prof. John Stein of University of Oxford. The goal of the project is to design the next generation of Deep brain stimulators for Parkinson’s Disease. Instead of stimulating the brain all the time, the device must predict when stimulation is needed and apply signals prior to any tremors occurring to stop them before they even start.

Some recent research involves culturing a biological neural network to act as the decision making brain of a physical robot. This research was sponsored by EPSRC. The project was broadcast in several international TV News items. A YouTube video featuring the work (entitled ‘Robot with a rat brain’) has been downloaded almost 2 million times. This project is also being used as Science and Technology case study material for secondary school students across the UK.

Currently, his research interests are focused on complex dynamic networks and systems, fuzzy-logic and neural-network topics of applied computational intelligence, and switched systems and switching control. In Google Scholar Kevin has a total of 7,005 citations, a H-index of 43 and an i-index of 146.