



Department of Electronic Engineering
Faculty of Engineering and the Built Environment
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RESEARCH AREAS

Dr Seren Reddy (seren@dut.ac.za)

Intelligent Systems: Merging of Embedded Systems with Machine Intelligence; including Pattern Recognition, Machine Learning, Image Processing and Robotic Vision, 2D-to-3D Conversion and NLP.

Dr Dare Sokoya (oludares@dut.ac.za)

Advanced Physical Layer Technologies: Massive MIMO, OFDM, millimetre wavelength technologies and power line communication.

Dr Trevor Pillay (trevorpi@dut.ac.za)

Applied Computational Intelligence (TBC): Application of artificial intelligence in the process control, control loop optimization, nonlinear control and controller performance analysis for industrial control systems.

Mr Stuart Macpherson (stuartm@dut.ac.za)

RF and Microwave Transmitter and Receiver Systems: Far-field antenna; radio astronomy.

Mr Rathi Sewsunker (rathilalls@dut.ac.za)

Renewable Energy and Energy Efficiency using Distributed Intelligence: Specific focus on the emerging DC paradigm with current work on optimal control methods applied to DC nanogrids and microgrids. Sub-projects run at the BTech level are focused on specific piece parts of the DC solution such as optimized water pumping, intelligent lighting and smart metering.