

DIRECTORY OF EXPERTS

UKZN EPPEI SPECIALIZATION CENTRE

FULL-TIME PERMANENT STAFF

Areas of Expertise	Name / Designation	Email Address	Telephone Number	School / Discipline
HVAC/HVDC Power Transmission Systems Electric Power System Analysis; Smart Grids Grid Integration of RE using Power Electronics Special Electric Machinery Design and Analysis	Davidson, Inno - Dr Eskom CoE Director UKZN EPPEI Coordinator EPPEI Supervisor	Davidson@ukzn.ac.za	(031) 260 7024 073 932 9525	School of Engineering / Electrical Engineering
Control Systems Engineering Instrumentation and Smart Grids	Agee, John – Professor Smart Grid Research Leader EPPEI Supervisor	ajeej@ukzn.ac.za	(031) 260 9111 062 016 2350	School of Engineering / Electrical, Electronic & Computer Engineering
Electric Power Systems Real-Time Digital Simulation of Power Systems	Akshay Saha - Dr EPPEI Supervisor	Saha@ukzn.ac.za	(031) 260 2725	School of Engineering / Electrical Engineering
Power System Stability and control On-line Dynamic Security Assessment	Tiako, Remy – Dr EPPEI Supervisor	Taiko@ukzn.ac.za	031-2601244 071 495 5482	School of Engineering / Electrical Engineering
Electric Power System Dynamics FACTS Controllers	Pillay Carpanen, Rudy – Dr Lecturer	pillayr21@ukzn.ac.za	(031) 260 1217	School of Engineering / Electrical Engineering
High Voltage Engineering	Swanson, Andrew - Dr EPPEI Supervisor	swanson@ukzn.ac.za	(031) 260 2713 084 541 0977	School of Engineering / Electrical Engineering
Power Electronics and Drives Artificial Intelligence	Venugopal, Chitra – Dr Lecturer	Venugopal@ukzn.ac.za	(031) 260 2720	School of Engineering / Electrical Engineering
Telecommunication Networks Radio Wave Propagation for Communication Transmission & Radio Communication Systems Microwave and Millimetric Communication	Afullo, Thomas Joachim Odhiambo – Professor EPPEI Supervisor	afullot@ukzn.ac.za	(031) 260 2730 082 773 2204	School of Engineering / Electronic Engineering
Image Processing and Computer Vision Pattern Recognition, Machine Learning Algorithms	Tapamo, Jules-Raymond – Professor EPPEI Supervisor	tapamoj@ukzn.ac.za	(031) 260 1287 078 246 1345	School of Engineering / Computer Engineering
Superconductivity; Material Science Graphene and Nanotechnology	Jarvis, Leigh – Dr EPPEI Supervisor	Jarvis@ukzn.ac.za	(031) 260 2742 083 671 6435	School of Engineering / Electronic Engineering

CO-RESEARCHERS, INTER-DISCIPLINARY EXPERTS, HONORARY AND PART-TIME STAFF

High Voltage Engineering HVDC Engineering	Tony Britten – Adj. Professor Supervisor / Consultant	antony.britten@gmail.com	(011) 629 5033 072 204 6086	Cleveland, Gauteng, 2022 South Africa
Power Engineering Power Electronics Specialist	Gitau, Michael Njoroge – Professor EPPEI Supervisor	michael.gitau@up.ac.za	(012) 420-2989 083 406 5774	Dept. of Electrical, Electronic & Computer Engineering University of Pretoria
Power Electronics, Drives & Energy Conversion HVDC Power Converters Power Electronic Applications in Power Systems	Adam, Grain Philip – Dr Research Fellow Supervisor	grain.adam@strath.ac.uk	0141 548 2443	Dept of Electronic & Electrical Engineering, University of Strathclyde, Royal College Building, 204 George Street, Glasgow, G1 1XW, Scotland
Optimization: Modelling, Heuristics and Meta- heuristics solutions to real-world optimization problems including space allocation, scheduling and assignment problems. Computational Intelligence techniques; Swarm Intelligence, AI	Adewumi, Aderemi, O – Dr Researcher – Smart Grids , Computational Intelligence	adewumia@ukzn.ac.za or dradewumi@gmail.com	(031) 260 1176	School of Mathematics, Statistics and Computer Science
Power System Studies Power Delivery and Utilization sector Grid Code Grid Integration of Renewable Energy	Bello, Mobolaji – Mr. Supervisor Engineer/Scientist III – Industry Specialist	mbello@epri.com	1-865-218-8005	Electric Power Research Institute Inc. (EPRI) 942 Corridor Park Blvd Knoxville, TN 37932, USA
Interface of RE Systems to Micro-Grid systems, Studies of the interactions of RE systems – wind and PV- on the operation/stability of the grid, Multi-port converters for grid-to-vehicle, fuel cell, batteries and energy storages, UPFC for power systems control, STATCOM for voltage regulation and reactive power dispatcher for wind-turbine enhanced power systems.	Ojo, Joseph – Professor Power Electronics Specialist UKZN Honorary Professor Supervisor	jojo@tntech.edu	1-931-372-3869	Dept. of Electrical and Computer Engineering, Tennessee Technological University, Brown Hall (BRWN) 323, 1 William L Jones Dr, PO Box 5004, Cookeville, TN 38505, USA
Smart Grids, Computational Intelligence Synchrophasors Real-Time Power & Intelligent Systems	Venayagamoorthy, Kumar – Professor Smart Grid Specialist UKZN Honorary Professor	gvenaya@clemson.edu gkumar@ieee.org	1-864.656.5936	Dept of Electrical & Computer Engineering, Clemson University, 303-D Riggs Hall Clemson University, Clemson, SC 29634, USA

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Power Systems Dynamics Real-time Digital Simulation	Rigby, Bruce – Dr Industry Partner Supervisor	Bruce@alectrix.co.za		EtalumiSe (Pty) Ltd
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