



Nama : ABU ZAHARIN BIN AHMAD (PROF. MADYA DR.)

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Expertise : Control in Power Electronics and Power System, Smart/Micro Grid Systems, Energy Management Systems, Power Economics, Complex Networks, Application of Advanced Control Systems (MPC, Nonlinear, Fuzzy etc)



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Expertise : Microelectronics, nanofabrication, Biochip design & fabrication, Bionano-materials, RF & Wireless communication



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Expertise : Control System, Navigation, Optimal and Robust System, Mobile Robot, Estimation, Filtering, Artificial Intelligence, System Modelling



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Expertise : Machine vision system for automation and manufacturing industry, reliability and failure analysis, thermal imaging in process plant, thermal camera application, early warning system using thermal camera, vision system in engineering application



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Expertise : Computational Intelligence (Particle Swarm Optimization, Gravitational Search Algorithm, Simulated Kalman Filter) and Artificial Intelligence



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Expertise : Multi-limbed mechanism & control, Robot dynamics & Motion control, Bioinspired robotics (mechanism & control), Underwater systems and communication, Network & communication protocols



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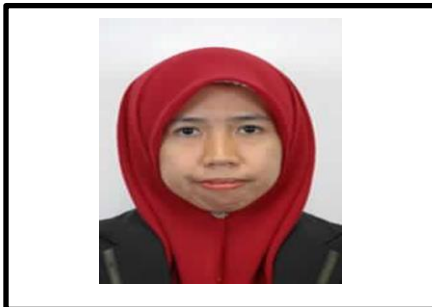


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Expertise : Power Electronics, Electric Drives, Power Quality, Energy & Grid, Electric Vehicle, Alternative Energy, Current Signature Analysis



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Expertise : Signal processing and analysis, fault and abnormal system analysis, diagnostic system design, electronic system design and prototyping, artificial intelligence system and driver safety system



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Expertise : Applied Control, Instrumentation, Human-Computer Interphase, Human-Robot Interphase, Unmanned System, Automation, Vision System for Robotics, Control System



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Expertise : Optical fiber sensor, sensing technology, health monitoring system, control system application



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Expertise : Data-driven controller, optimization of energy management, vibration control, control of mechatronic systems, identification of nonlinear systems



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Expertise : Image processing and robotics



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Expertise : Biosensor / diagnostic kits, artificial intelligence simulation, process control, sensor instrument, sustainable water and wastewater treatment, environmental



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Expertise : Optimization in power system, artificial intelligence



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Expertise : Control of Two-Wheeled system, Intelligent and Fuzzy Logic Control, Optimization of Control parameters



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Expertise : Antenna design, adaptive beamforming, communication systems, electronic system design, FPGA implementation, wireless communication and engineering education



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Expertise : Environmental Engineering & Hydrodynamic Engineering



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Expertise : Image processing, pattern recognition, human computer interaction, and machine learning



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Expertise : Power system optimization, distributed generation application, renewable energy management, power quality



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Expertise : Robot localization and mapping, Kalman filter estimation, Mobile robotics, Particle filter, Simultaneous localization and mapping, FastSLAM



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Expertise : PV system, PV forecasting, Irradiance forecasting, Storage management, Renewable energy



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Expertise : Microwave engineering; Antennas and Propagation, Computational Electromagnetics, Electromagnetic Theory, Material Assessment, Resonator, Waveguides



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Expertise : SQUID (superconducting quantum interference device), Magnetometry, Superconductors, Magnetic Nanoparticles, Magnetic Materials and Magnetism, Sensors



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Expertise : Control, estimation theory, and mobile robot simultaneous localization and mapping (SLAM)



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