

# Contents

Plant Disease Detection and Classification Using Camera and Convolutional Neural Network <i>Charis Teoh Yi En, Gan Kok Beng</i>	1
Optimize Neural Network Implementation on FPGA <i>Chia Tieng Tieng, Sawal Hamid Md Ali</i>	13
Colour Contrast Analyser for Colour Blind Assessment <i>Harhiviin a/l Ganesan, Kalaivani Chellapan</i>	20
Design of portable biosensor reader for Leptospira Detection <i>Kaliswaran a/l Ganesan, Noorfazila Kamal, Huda Abdullah</i>	28
The Development of Solar Charger Based on Sun Detector Using Arduino <i>Izzuan Ismail, Nor Azwan Mohamed Kamari</i>	40
High Performance Cuk Converter Controller <i>Muhammad Khairul Naim Saaey, Yushaizad Yusof, Radin Zaím Radin Umar</i>	47
Simulation of the Performance of Iron Pyrite Thin Film Solar Cell by SCAPS 1-D <i>Nik Khaliq Zailani Nik Iskandar, Badariah Bais, Puvaneswaran a/l Chelvanathan</i>	57
Stroke Monitoring System using The Microwave Imaging System <i>Nurrol Athirah Mohamad, Norbahiah Misran, Mohammad Shahidul Islam, Mohammad Tariqul Islam</i>	63
Underwater Data Logger Development: Bluetooth Wireless Communication Implementation for Monitoring <i>Nurul Izzati Saleh, Iskandar Yahya</i>	72
Design Optimization of Fuzzy-PID Controller for Path Tracking of an Autonomous Hovercraft <i>Nur Amaliea Izzatie Azmi, Asma Abu-Samah, Aqilah Baseri Huddin</i>	82

# Index of Authors