

SYMPOSIUM ON INTELLIGENT MANUFACTURING AND MECHATRONICS 2018 (SympoSIMM 2018)



Pekan, 29 Januari 2018- Satu simposium di dalam bidang kejuruteraan pembuatan pintar dan mekatronik hasil kerjasama Fakulti Kejuruteraan Pembuatan, Universiti Malaysia Pahang (UMP) dan Fakulti Kejuruteraan Pembuatan, Universiti Teknikal Melaka (UTeM) yang dinamakan *Symposium on Intelligent Manufacturing and Mechatronics* (SympoSIMM 2018) telah dianjurkan di Perpustakaan UMP Pekan, Pahang, Malaysia pada 29 Januari 2018.

Simposium yang berlangsung selama satu hari ini diserikan dengan ucapan daripada YBhg Profesor Ir. Dr. Wan Azhar Wan Yusoff bertajuk “The Ideas of Mechatronics”. Sebanyak 120 permohonan kertas kerja penyelidikan telah diterima, disemak dan dinilai oleh ahli panel penilai dan hanya 65 kertas kerja penyelidikan telah diterima, 15 kertas kerja telah menarik diri dan 40 kertas kerja ditolak atas pelbagai sebab. Kertas kerja yang diterima telah di bahagikan kepada 5 bidang kumpulan iaitu *Intelligent Manufacturing*, *Robotics*, *Artificial Intelligence*, *Instrumentation*, dan *Modelling and Simulation*. Simposium ini mendapat penyertaan penyelidik-penyelidik dari UMP, UTeM, USM, UniMAP, UTP dan MMU. Kertas kerja yang diterima dibahagikan kepada 3 sesi pembentangan selari.



Kertas kerja terbaik yang disyorkan oleh para penilai bagi setiap bidang kumpulan telah dianugerahkan “Best Paper Award”. Mereka adalah seperti berikut *Regression Modelling of Biomechanics Factors for Push Activities in Manufacturing Industry* bagi kategori *Intelligent Manufacturing* yang ditulis oleh Seri Rahayu Kamat, Minoru Fukumi, Athira Ghazali and Syamimi Shamsuddin (UTeM), *Decision Making Support System Using Intelligence Tools to Select Best Alternative in Design for Remanufacturing (Economy Indicator)* bagi kategori *Artificial Intelligence* yang ditulis oleh Ahamad Zaki Mohamed Noor, Muhammad Hafidz Fazli Md Fauadi, Fairul Azni Jafar, Nor Rashidah Mohamad, Muhammad Winal Zikril Zulkifli, Muhammad Haziq Hasbulah, Muhammad Azri Othman, Mahasan Mat Ali, Jee Boon Goh and Rajandran Morthui (UTeM),

An Enhancement in Control Laws of Super Twisting Sliding Mode Servo Drive Controller using Hyperbolic Tangent Function and Arc Tangent Smoothing Function bagi kategori *Modelling and Instrumentation* hasil tulisan Zamberi Jamaludin, Chiew Tsung Heng, Ahmad Yusairi Bani Hashim, Lokman Abdullah, Nur Aidawaty Rafan (UTeM), *Vehicle Detection System Using Tunnel Magnetoresistance Sensor* bagi kategori *Instrumentation* tulisan Nurul A'In Nadzri, Chai Kar Hou, Mohd Mawardi Saari, Saifudin Razali, Mohd Razali Daud, Hamzah Ahmad (UMP) dan *Motion Tracker Based Wheeled Mobile Robot System Identification and Controller Design* bagi kategori *Robotics* yang ditulis oleh Dwi Pebrianti, Yong Hooi Hao, Nur Aisyah Syafinaz Suarin, Zulkifli Musa, Luhur Bayuaji, Mohammad Syafrullah and Indra Riyanto (UMP).



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Pekan, 29 January 2018- A symposium covering the field of Intelligent Manufacturing and Mechatronics that was jointly organised by the Faculty of Manufacturing Engineering, Universiti Malaysia Pahang (UMP) and the Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka (UTeM) known as the Symposium on Intelligent Manufacturing and Mechatronics (SympoSIMM 2018) was held at the UMP Pekan Library, Pekan, Pahang, Malaysia on 29 Januari 2018.

This one-day symposium was graced by a keynote by Prof. Ir. Dr. Wan Azhar Wan Yusoff entitled "The Ideas of Mechatronics". 120 submissions were received and rigorously reviewed, of which only 65 manuscripts were accepted, 15 were withdrawn and 40 were rejected due to various reasons. The accepted papers were categorised into 5 tracks, namely Intelligent Manufacturing, Robotics, Artificial Intelligence, Instrumentation, dan Modelling and Simulation. The symposium has attracted submissions from UMP, UTeM, USM, UniMAP, UTP dan MMU. The papers were divided into 3 parallel sessions of oral presentation.



One best paper from each track as per the reviewers' suggestion was awarded the Best Paper Award. They are *Regression Modelling of Biomechanics Factors for Push Activities in Manufacturing Industry* under the Intelligent Manufacturing track written by Seri Rahayu Kamat, Minoru Fukumi, Athira Ghazali and Syamimi Shamsuddin (UTeM), *Decision Making Support System Using Intelligence Tools to Select Best Alternative in Design for Remanufacturing (Economy Indicator)* under Artificial Intelligence track written by Ahamad Zaki Mohamed Noor, Muhammad Hafidz Fazli Md Fauadi, Fairul Azni Jafar, Nor Rashidah Mohamad, Muhammad Winal Zikril Zulkifli, Muhammad Haziq Hasbulah, Muhammad Azri Othman, Mahasan Mat Ali, Jee Boon Goh and Rajandran Morthui (UTeM), *An Enhancement in Control Laws of Super Twisting Sliding Mode Servo Drive Controller using Hyperbolic Tangent Function and Arc Tangent Smoothing Function* under Modelling and Instrumentation

track by Zamberi Jamaludin, Chiew Tsung Heng, Ahmad Yusairi Bani Hashim, Lokman Abdullah, Nur Aidawaty Rafan (UTeM), *Vehicle Detection System Using Tunnel Magnetoresistance Sensor* under Instrumentation track by Nurul A'In Nadzri, Chai Kar Hou, Mohd Mawardi Saari, Saifudin Razali, Mohd Razali Daud, Hamzah Ahmad (UMP) and *Motion Tracker Based Wheeled Mobile Robot System Identification and Controller Design* under Robotics track written by Dwi Pebrianti, Yong Hooi Hao, Nur Aisyah Syafinaz Suarin, Zulkifli Musa, Luhur Bayuaji, Mohammad Syafrullah and Indra Riyanto (UMP).

