

Agenda

Day 1-Friday 24th November 2017

11:00 – 13:30 **Conference Registration, Arrival (Reg. Area, 1F)**
Lunch (Room I, 1F)

Time	Activities	Location
13:30-14:00	Open Ceremony	Conference Hall, 1F
14:00-15:10	Plenary Keynotes	Conference Hall, 1F

15:10 – 15:30 **Group Photo (Entrance, 1F)**
Tea/Coffee Break (Square B, B1F)

Time	Activities	Location
15:30-16:45	Industrial Session (Invitational)	Conference Hall, 1F
	Technical Session 1	Room A, B1F
	Technical Session 2	Room B, B1F

16:45 – 17:30 **NFU-Workshop (Organizes at Square A, 1F)**

18:00 – 19:30 **Conference Dinner, Hakka Restaurant**
(Adress : No.5, Ji-An St., Huwei Township, Yunlin County, Taiwan 632)

Day 2-Saturday 25th November 2017

Time	Activities	Location
9:10-10:25	Technical Session 3	Room C, 1F
	Technical Session 4	Room D, 1F

10:25 – 10:45 **Tea/Coffee Break (Square B, B1F)**

Time	Activities	Location
10:45-12:00	Technical Session 5	Room C, 1F
	Technical Session 6	Room D, 1F

12:00 – **Conference Close**

12:00 – 13:30 **Lunch (Room C&D, 1F)**

Conference Program

Day 1-Friday 24th November 2017

- 11:00 – 13:30 **Conference Registration (Reg. Area, 1F)**
Lunch (Room I, 1F)
- 13:30 – 14:00 **Open Ceremony by Host (Conference Hall, 1F)**
Professor Wen-Yuh Jywe
(President of National Formosa University,
Conference chair)

Plenary Keynotes	
Moderator: Prof. Jwu-Sheng Hu, National Chiao Tung University, Taiwan (Vice President and General Director of Industrial Technology Research Institute)	
Time	Conference Hall, 1F Management Building
14:00 – 15:10	Keynote 1: “Key technology in ISO 10791 series for 5-axis machining centers” Prof. Masaomi TSUTSUMI, Tokyo University of Agriculture and Technology, Japan
	Keynote 2: “Applying AVM & AMCoT for Industry 4.1” Prof. Fan-Tien Cheng, National Cheng Kung University, Taiwan

- 15:10 – 15:30 **Group Photo (Entrance, 1F)**
Tea/Coffee Break (Square B, B1F)

Technical Session 1	
Session Chair: Prof. Jing-Chung Shen, National Formosa University, Taiwan	
Time	Room A, B1F Management Building
15:30 – 16:45	(A001) <i>A 3D NiO-Based Printed Thermistor via Aerosol Jet Technology</i> Kuan-Ming Li and Chia Wang , National Taiwan University (Taiwan)
	(A002) <i>Feature-Recognition-based Automatic Toolpath Generation for Molds and Dies</i> Cheng-Chieh Wu , Yao-Yang Tsai, National Taiwan University

	(Taiwan) and Yang-Lun Liu, Industrial Technology Research Institute (Taiwan)
	(A003) <i>Prediction Method of Optimized Stability Parameters for Thin-walled Workpiece by 3D Stability Lobe Diagram in Milling Process</i> Chung-Yu Tai and Ta-Jen Peng, Industrial Technology Research Institute (Taiwan)
	(C003) <i>A Study on Improving Productivity for Scrolls</i> Yi-Tsung Lin, Jia-Lun Jhang, Xian-Ghong Ko, Der-Min Tsay, National Sun Yat-Sen University (Taiwan), Guan-Shong Hwang , Nanhua University (Taiwan) and Bor-Jeng Lin, National Formosa University (Taiwan)
	(C004) <i>Analysis of Hydrostatic Linear Guideway with Membrane Restrictor</i> Bo-Jia Lin, Ta-Hua Lai and Shih-Chieh Lin , National Tsing Hua University (Taiwan)
	(B007) <i>Application of Subspace Method on Dynamic Modelling of Feed Drive System</i> Meng-Shiun Tsai and Teng-Ti Huang, National Chung-Cheng University (Taiwan)

Technical Session 2	
Session Chair: Prof. Chun-Jen Chen, National Formosa University, Taiwan	
Time	Room B, B1F Management Building
15:30 – 16:45	(E002) <i>By using TRIZ theory on innovative system design - The case study of On the safety design of an electronic locking system for the flight cabin compartment</i> Jiunn Fang and Po-Chuan Chen , Feng Chia University (Taiwan)
	(E003) <i>Automatic compensation of the linear positioning error</i> Hung-Ta Shih , National Central University (Taiwan), Yung-Cheng Wang, Bo-Yi Jhuang, National Yunlin University of Science and Technology (Taiwan) and Chung-Ping Chang, National Chiayi University (Taiwan)
	(F003) <i>Optimal Process Mean and Standard Deviation Settings for Rectifying Sampling Inspection Plan with Quality Investment</i> Chung-Ho Chen , Southern Taiwan University of Science and Technology (Taiwan)
	(F008) <i>Optimized Feedback Type 2-DOF PID Controller for</i>

	<p><i>Synchronous Motion Control of Dual Linear Motors Using Bat Algorithm</i></p> <p>Syuan-Yi Chen, Bo-Chen Yang, National Taiwan Normal University (Taiwan) and Zhen-Wei Yang, National Taipei University of Technology (Taiwan)</p>
	<p>(F009) Position Tracking Control of Ironless Permanent Magnet Linear Synchronous Motor Using Fractional-Integral Sliding-Mode Control</p> <p>Syuan-Yi Chen, Chih-Hun Chang, National Taiwan Normal University (Taiwan) and Tung-Sheng Liu, Industrial Technology Research Institute (Taiwan)</p>
	<p>(F011) <i>The Research of Scraping Parameters Detection and Image Stitching Using Smartphone Vision System</i></p> <p>Guan-Ting Lin, Chun-Rong Su, Wei-Lun Huang, Precision Machinery Research & Development Center (Taiwan) and Ming-Fei Chen, National Changhua University of Education (Taiwan)</p>

16:45 – 17:30

NFU-Workshop (Organizes at Square A, 1F)

18:00 – 19:30

Conference Dinner, Hakka Restaurant

(Address : No.5, Ji-An St., Huwei Township, Yunlin County, Taiwan 632)

Day 2-Saturday 25th November 2017

Technical Session 3	
Session Chair: Prof. Bor-Jeng Lin, National Formosa University, Taiwan	
Time	Room C, 1F Management Building
9:10 – 10:25	<p>(B003) <i>Development of an Expert System with 3D Printers in the Production Line of Digital Dentistry</i></p> <p>Ming-Huang Chen, Yung-Nien Sun, Rong-Fu Kuo and Yu-Sheng Lin, National Cheng Kung University (Taiwan)</p>
	<p>(B004) <i>Implementation of Communication Protocol for Machine Tool in Reference Architecture of Fog Computing</i></p> <p>Tai-Wei Chiu, Yung-Yi Huang, Hsiu-Fen Lee and Hung-Sheng Chiu, Institute For Information Industry (Taiwan)</p>
	<p>(B005) <i>Application Implementation of Flowshop Scheduling by Genetic Algorithm</i></p> <p>Sheng-Yi Huang, Yung-Yi Huang, Hsiu-Fen Lee and Hung-Sheng Chiu, Institute For Information Industry (Taiwan)</p>

	(B006) <i>The Observation of Internet of Things</i> Cheng-Hao Chen, Yung-Yi Huang , Hsiu-Fen Lee and Hung-Sheng Chiu, Institute For Information Industry (Taiwan)
	(B008) <i>Study on The Digital Shadow System with Scara and Palletizing Robots for Car-Used Oil Filter Assembly Line</i> Quang-Cherng Hsu , Xuan-Qi Liang and The-Vinh Do, National Kaohsiung University of Applied Sciences (Taiwan)

Technical Session 4	
Session Chair: Prof. Dar-Li Yang, National Formosa University, Taiwan	
Time	Room D, 1F Management Building
9:10 – 10:25	(C001) <i>The Mobile Application Design with Wireless Data Acquisition and Transmission System Design in the Precise Machine Tools Measurement</i> Wen-Yuh Jywe, Yung-Hoh Sheu, Cao-Sang Tran , National Formosa University (Taiwan) and Stephen D. Prior, University of Southampton (UK)
	(F001) <i>Single Device that Can Measure Gravity, Magnetism & Data for Inertial Navigation System and Also Provide Propulsion to Satellites for Prolonged Missions in Space</i> Muhammad Amjad Ali , District Vehari (Pakistan)
	(D002) <i>CutRight: Fast and Accurate Machining Simulation Software for NC Tool Path Verification and Correction</i> Jack Szu-Shen Chen, Jimin Joy and Hsi-Yung Feng , The University of British Columbia (Canada)
	(F004) <i>An Image Recognition System in Line-type Manufacturing System for Signal Connectors with Cable in Order</i> Yu-Lin Zhao and Ming-Piao Tsai , National Formosa University (Taiwan)
	(F006) <i>Method and apparatus for sequencing-batch purification of potassium nitrate from solid waste produced by glass-strengthening process</i> Min-Hui Yang and Zong-Hao Tsai, National Formosa University (Taiwan)

10:25 – 10:45

Tea/Coffee Break (Square B, B1F)

Technical Session 5

Session Chair: Ming-Piao Tsai, National Formosa University, Taiwan	
Time	Room C, 1F Management Building
10:45 – 12:00	(D001) <i>Using Sniffing Attack to capture username and password on Local Area Network</i> Minh-Vuong Nguyen and Shih-Chieh Shie, National Formosa University (Taiwan)
	(F005) <i>A computer program for Membrane processes and Initial investment cost Calculation</i> Jun-ping a Huang and Kanchanit Panawattanakul , National Formosa University (Taiwan)
	(F007) <i>Modelling of critical factors for resilience capability in supply chains: A Grey-DEMATEL and ANP approach</i> An-Yuan Chang and Doan Nguyen Phuong Tam , National Formosa University (Taiwan)
	(B009) <i>Study of Privacy Preservation on K-anonymity Model Data Mining</i> Ji-Han Jiang, Khunanon Chunlakan and Shih-Chieh Shie, National Formosa University (Taiwan)
	(F010) <i>The Impact of Customer Satisfaction and Monetary Price Perception on Word-of-Mouth and Revisit Intentions of Low-Cost Airlines</i> Thi-Giang Phung and Man-Shin Cheng, National Formosa University (Taiwan)

Technical Session 6	
Session Chair: Yung-Hoh Sheu, National Formosa University, Taiwan	
Time	Room D, 1F Management Building
10:45 – 12:00	(B001) <i>Dynamical production scheduling system</i> Wen-Yuh Jywe and Shang-Kai Liao , National Formosa University (Taiwan)
	(E001) <i>Development of a Measurement and Compensation System for the Six-Axis Robot Arm</i> Wen-Yuh Jywe and Guan-Rui Chen , National Formosa University (Taiwan)
	(B002) <i>To build the ID and APP for Scraping rubbing</i> Wen-Yuh Jywe, Sheng-Qi Chen , Tung-Hsien Hsieh and Jia-Hong Chen, National Formosa University (Taiwan)
	(C002) <i>The Traceability System for Machine Tool – Three Axis Vertical and Horizontal Machining Centers</i>

	Wen-Yuh Jywe, Po-Hsien Lee , Tung-Hsien Hsieh, Jia-Hong Chen, National Formosa University (Taiwan) and Junghsen Lieh, Wright State University (USA)
	(F002) <i>The straightness error measurement of the Machine tool</i> Wen-Yuh Jywe, Han-Tzu Huang , National Formosa University (Taiwan) and Eberhard Manske, Technische Universität Ilmenau (Germany)

12:00 – **Conference close**

12:00 – 13:30 **Lunch (Room C&D, 1F)**