



## Table of Oral Presentation

Date	Oral Section	Room Elliott
4 February Tuesday	Session 1 14:45–15:45	<b>Chair : Her-Terng Yau</b>
		<b>ICPMMT 54</b> 14:45 <b>A Novel Robotic Automated Optical Inspection System for On-the-Fly Production Lines</b> <i>Hsien-I Lin and Fauzy Satrio Wibowo</i>
		<b>ICPMMT 72</b> 15:05 <b>Identification of the the Ball Bearing Type by Optimizing Model Parameters</b> <i>Xiao-Yi Su, Chih-Jer Lin, Bo-Lin Jian, Wen-Lin Chu, and Her-Terng Yau</i>
		<b>ICPMMT 67</b> 15:25 <b>Adopting a Single Inertial Sensor and Designed Motion to Classify Brunnstrom Stages for Lower Extremities on Post-Stroke Patients</b> <i>Shao-Li Han, Hsin-Ta Li ,and Min-Chun Pan</i>

Date	Oral Section	Room Elliott
4 February Tuesday	Session 2 15:45–17:05	<b>Chair : Man Soo Joun</b>
		<b>ICPMMT 08</b> 15:45 <b>Ductile Fracture Criterion and its Calibration</b> <i>Shunying Zhang and Jeong Whan Yoon</i>
		<b>ICPMMT 53</b> 16:05 <b>Material Characterization of Metal 3D Printed Parts using Ultrasonic Nondestructive Evaluation</b> <i>Kyung-Young Jhang, Seonghyun Park, and Sungho Choi</i>
		<b>ICPMMT 19</b> 16:25 <b>Study on Numerical Oscillations of Forming Load Occurring in Forward Open Cold Extrusion</b> <i>Akash Meena, Jae Dong Yoo, Kwang Min Kim, Wan Jin Chung, and Man Soo Joun</i>
		<b>ICPMMT 70</b> 16:45 <b>Fully Coupled Finite Element Analysis of an Automatic Multi-stage Cold Forging Process</b> <i>Jong-Bok Byun, Hyun-Joon Lee, Jong-Bok Park, Il-Dong Seo, and Man-Soo Joun</i>



Date	Oral Section	Room Elliott
5 February Wednesday	Session 3 10:35–11:35	<i>Chair : Andrea Deaconescu</i>
		ICPMMT 27 10:35 <b>The High-payload Manipulator Development Based on Novel Two-stage Cycloidal Speed Reducers and Hub Motors</b> <i>Jung-Tang Huang and Chia-Wei Li</i>
		ICPMMT 29 10:55 <b>A Novel Mechatronic Kit of Variable Stiffness Manipulators – Design and Implementation</b> <i>Jonqlan Lin, Wu-Hsiang Hsu, and Chia-Chang Liu</i>
		ICPMMT 33 11:15 <b>Compliance Adjustment of a Gripper System Designed for the Seizing of Objects of Modifiable Consistency</b> <i>Andrea Deaconescu and Tudor Deaconescu</i>

Date	Oral Section	Room Elliott
5 February Wednesday	Session 4 11:35–12:35	<i>Chair : Hong-Tzong Yau</i>
		ICPMMT 34 11:35 <b>AI-based Restoration Design and Manufacture for Digital Dentistry</b> <i>Hong-Tzong Yau</i>
		ICPMMT 36 11:55 <b>Insights on System Identification and Servo Control for Robot Manipulators</b> <i>Jason Sheng-Hong Tsai, Bing-Jyum Lin, Shu-Mei Guo, Kuo Chun Tsai, Zhu Han, Tzong-Jiy Tsai, Leang-San Shieh, and Jose I. Canelon</i>
		ICPMMT 56 12:15 <b>Discussion of Scraping Depth and Feeding Rate Performance of Micro Shaping</b> <i>Meng-Ju Lin and Rong-Shun Chen</i>



Date	Oral Section	Room Elliott
5 February Wednesday	Session 5 13:30–14:30	<b>Chair : Jinn-Jong Sheu</b>
		ICPMMT 64 13:30 <b>Modelling Mechanical and Deformation Behaviours of 3D Printed Workpieces by Using Discrete Element Method: Benchmark Tests for Verifying the Granule Model of Heat Transfer</b> <i>Yun-Chi Chung and Ling-Xuan Meng</i>
		ICPMMT 18 13:50 <b>Modelling of Neutral line Parameter for Sheet Metal Stamping and Roll Forming Processes</b> <i>Bao-Shan Wang, Jing Chen, Cheng-Hsien Yu, and Jinn-Jong Sheu</i>
		ICPMMT 44 14:10 <b>Study on Mold Flow Analysis and Injection Product Verification by Taguchi Method and Reaction Surface Method - Taking Toothbrush as an Example</b> <i>Dyi-Cheng Chen, Kuo-Cheng Wen, and Yu-Yu Lai</i>

Date	Oral Section	Room Elliott
5 February Wednesday	Session 6 14:30–15:30	<b>Chair : Patiphan Juijerm</b>
		ICPMMT 05 14:30 <b>Strip End Flip Phenomena in Finishing Mill Stand due to Asymmetric Strip and Work Roll Pair</b> <i>Jong-Ning Aoh, Han-Kai Hsu, and Ming-Fa Chen</i>
		ICPMMT 42 14:50 <b>An Investigation of the Hardenability, Dissimilar Welding and Toughness of Boron-containing and Boron-free Steels</b> <i>Justin Walker, Wayne Stalls, and Tim Pasang</i>
		ICPMMT 46 15:10 <b>Combination of Heat Treatment and Modified Mechanical Surface Treatment on Martensitic Stainless Steel AISI 440C</b> <i>Patiphan Juijerm and Saiyan Primee</i>



Date	Oral Section	Room Elliott
5 February Wednesday	Session 7 15:45–16:45	<b>Chair : Gow-Yi Tzou</b>
		<b>ICPMMT 06 15:45</b> <b>Applied Inverse Deep Learning Method to find The Motor Heat Source of High Speed Spindle</b> <i>De-Shin Liu, Zhen-Wei Zhuang, and Jun-Wei Wu</i>
		<b>ICPMMT 50 16:00</b> <b>An Investigation of the Strengthening Mechanisms of 6061 Aluminum by Cold Work and Heat Treatment</b> <i>Celine Turangi, Shayneal Singh, and Tim Pasang</i>
		<b>ICPMMT 28 16:20</b> <b>The Numerical Calculation of Multiphase Flow in Cathode Channel of PEMFC</b> <i>Chao-Chung Liu</i>