

ICAM2016 Full Paper & Poster Show

Sunday, December 18th

Full Paper Show Session A1 📍 Room A

A. Advanced Machining and Forming Processes Measurement

H. Additive Manufacturing Technology

I. Smart Manufacturing Technology for Industry 4.0

09:30-11:30

A-9185. Study on Grain Coarsening in Aluminum Alloy 6061 by Using Ring Compression Test
Kuang-Jau Fann, Chun-Chi Chen

H-8559. The Development of Tank Swapping for Powder Bed Additive Manufacturing
Jia-Chang Wang, Chia-Chen Wang, Wei-An Tsai

H-8560. Development of a customized assistive bite-pen for disabled people by using additive manufacturing
Jia-Chang Wang, Hsiang Hsieh, Yen-Hsun Lin

H-8562. The Development of Hybrid Manufacturing Systems for Skeleton Surface Object
Jia-Chang Wang, Mon-Lin Wu, Shao-Wei Chen

14:30-15:30

H-8563. The development of Slurry-based Ceramic Additive Manufacturing system with no solvent
Jia-Chang Wang, Yi-Min Jiang, Tsung-Han Wu

H-8567. The Design and Implementation of a FDM Type Additive Manufacturing System
Jia-Chang Wang, Ming-Qian Jiang, Sih-Hao Lin

H-8656. Ontology-Based Service Process and Patent Informatics for Collaborative Service Innovation: The Case of Orthodontic 3D Printing
Amy J.C. Trappey, Tong-Mei Wang, Charles V. Trappey, Jasmine T.C. Tung, Mark Y.L. Tang

H-9137. Fabrication of Zirconia Ceramic parts using Solvent Based Slurry by Stereolithography & Sintering process
Jia-Chang Wang, Hitesh Dommati

Sunday, December 18th

Full Paper Show Session B1 Room B

F. Precision Engineering Measurement

K. Others

L. Military-civilian dual-use technologies (invited session)

09:30-11:30

F-8457. Channel Parameter Measurements of Indoor LTE System for the Industrial Internet of Things

Jeich Mar, Guan-Yi Liu, Tsung-Yu Chang, Yu-Jie Wang, Yung-Chun Chiang

F-9820. Development of image processing setup for an auto-scraping machine

Szu-Lin Liu, Chun-Yuan Yeh, Po-Chun Chi, Shih-Chieh Lin

K-8952. A new method of finding stress solutions in plastically compressible solids

Sergei Alexandrov

K-9093. Multi Power Bank

Wei Bin Yang, Guan-Yu Chen

K-9124. A parameter identification method for structural systems using moving window Fourier Transform

Wenlung Li, Kuo-Ching Liu, You-Rong Lin

14:30-15:30

K-9734. An Adjustable Liquid-Liquid Extraction device for the Extraction of Pharmaceutical Compounds

Yu-Lung Chang, Chen-Han Chuang, Ya-Yu Chiang

L-8461. Applications of energy storage for family and community

Chih-Hsien Chung, Gwo-Huei You, Kuo-Sheng Fu, Kuo-Kuang Jen, Chien-Hao Chen, Chi-Sheng Wu, Shu-Hsien Wen, Wei-Min Hsiao, Tsung-Jung Wu, King Chen, Chen-Ho Huang

L-8485. Synthesis of Egg-shell Pd catalyst supported on Al₂O₃

Shu-Jen Chiang, Yu-Wen Chen

L-8551. Material analysis and electrical properties of nanostructured vanadium oxide (VO_x) thin films for microbolometer

Hsin-Chang Chen

Sunday, December 18th

Full Paper Show Session C1 Room C

B. Micro- and Nano-Fabrication

C. Tribology for Manufacturing

E. Bio-medical Manufacturing

G. Robotics and Automation

09:30-11:30

B-8540. Accelerated-Lifetime-Soak-Test of flexible 3D wireless implantable biomedical system

Wen-Cheng Kuo, Huei-Jun Wang, Wei-Ching Wang, Kuan-Chiao Cheng

B-8700. Maskless Lithography Realized by Digital Projection Optics and Point Array Oblique Scanning Method

Hung-Liang Chien, Yung-Chun Lee

B-9041. Structural coloration polymer labels based on photonic crystal grating

Chang-Yi Peng, Ching-Wen Li, Che-Wei Hsu, Chien-Chung Jeng, Cheng-Chung Chang, Gou-Jen Wang

B-9953. Fabrication of floating image devices using a 3-D printer

Cheng-Yu Li, Hsi-Fu Shih

C-8570. Discharge Coating on Mold Steel Surface through Wire-EDM by Nickel-coated Wire and Conventional Brass Wire

Albert Wen-Jeng Hsue, Sheng-Hsuan Chiu, Yang-Lei Lin

14:30-15:30

C-9954. Friction Characteristics for Sliding Blocks with Micro Grooves

Hsin-Chih Wang, Jhy-Cherng Tsai, Pin-Lun Huang, Jhy-Ming Chen

E-8608. Study on Brain phantom in Surgical Training

Kuan-Ting Liu, Fu-Ren Xiao, Hong-Tsu Young, Chao-Yang Huang

G-8602. Robotic Surgical Assistant for minimally invasive cranial surgery

Ding-Yuan Chen, Fu-Ren Xiao, Hong-Tsu Young, Chao-Yang Huang

E-8932. Surface Treatment on Physical Properties and Biocompatibility of Orthodontic Power Chains

H. C. Cheng, W. T. Lin, Y. K. Shen, Y. H. Wang

Sunday, December 18th

Poster Show 1 09:30-11:30 📍 3F Assembly Hall

Poster 1-1.	Poster 1-9.
L-8131. The multi functional kitchenware with integrated wireless networking technology <i>Ming-Hung Lin, Tsung-Hao Yang, Jung-Chieh Chang</i>	H-8538. Impact test of 3D-printing photopolymer specimens <i>F.C. Hsieh, P.H. Lin, H.P. Pan, C.S. Yu, C.M. Chang</i>
Poster 1-2.	Poster 1-10.
A-8200. Production of Stainless Steel 316L Powder for Additive Manufacturing by Gas Atomization Processes <i>M. R. Wang, K. L. Lai1, W. C. Tseng</i>	I-8541. Intelligent Coil Leveling System based on Deep Learning methods <i>Sung-Yu Tsai, Jen-Yuan (James) Chang</i>
Poster 1-3.	Poster 1-11.
L-8466. Application of Vacuum Assisted Resin Transfer Molding in Highly Loaded Structures of Composite Bridge <i>Kuo-Wei Wu, Chih-Chia Chen, Tseng-Chung Ko</i>	F-8543. The development and optimization of an optical autofocus system by adopting the dual-confocal configuration <i>Chien-Sheng Liu, Chia-Ming Jan, Jyun-Yi Yang</i>
Poster 1-4.	Poster 1-12.
L-8475. The thermal reliability analysis of metallized AlN substrate <i>C. T. Wu, Y. K. Kuo, P. S. Huang, C. H. Lin, M. Y. Tsai</i>	B-8547. Self-Adjusting Blade Coating for Large-Sized Polymeric Light Emitting Diode Lighting <i>J.-W. John Cheng, Yo-Han Wu, Tzu-Ching Yang, Chuang-Hung Chiu, Yen-Yu Huang, Yeh-Min Lin, Chang-Pen Chen</i>
Poster 1-5.	Poster 1-13.
F-8480. Measuring and Compensating Methods for Spatial Positioning Accuracy of a Six-Axis Industrial Robot <i>Chien-Hung Liu</i>	A-8590. An Investigation on Vibration-Assisted Glass Cutting <i>Jhy-Cherng Tsai, Yuan-Hung Tsai</i>
Poster 1-6.	Poster 1-14.
G-8502. Investigations of the Force and Contour Tracking Control of the Robot Arm in Polishing Operations <i>Liang-Kuang Chen, Ssu-Hsien Kuo</i>	I-8625. Smart Manufacturing Study of the Innovative Mushroom Production Line <i>Rong-Yuan Jou, Trung-Hung Nguyen</i>

Poster 1-7.	Poster 1-15.
I-8514. IEC 61499 Application in Leveling Production Line <i>Yi-Chih Fan, Cheng-Chen Yang, Jen-Yuan (James) Chang</i>	H-8646. Evaluation of the physico-mechanical properties of activated-carbon enhanced recycled polyethylene/polypropylene filament for 3D printing <i>Siewhui Chong, Guan-Ting Pan, Thomas C.-K. Yang, Yi-Fan Chen, Jaron Keng</i>
Poster 1-8.	Poster 1-16.
I-8522. Intelligent Coil Leveling Machine Development through Cyber-Physical Systems Integration <i>Brian Chen, Jen-Yuan (James) Chang</i>	B-8688. Fabrication of Transparent Thin Film Transistor with Zinc Indium Tin Oxide Channel Layer <i>Sheng-Po Chang, Yi-Shiang Hsiao, Wen-Chen Hua, Jun-Yi Li</i>

Sunday, December 18th

Poster Show 2 14:30-15:30 📍 3F Assembly Hall

Poster 2-1.	Poster 2-9.
A-8885. Sidewall Curl Reduction Using Active Drawbead with Advanced High Strength Steel <i>Yu-Ting Yeh, Sin-Liang Lin, Kai-Chieh Hsu, Kuan-Ming Li, Fuh-Kuo Chen, Yi-Kai Lin</i>	A-9193. Countersunk Studs Hot Forged in Core-Shell Type Metal Composite <i>Kuang-Jau Fann, Wei-Ang Lai</i>
Poster 2-2.	Poster 2-10.
B-8913. Performances of nanostructures within InGaN-based Multiquantum-well Light-emitting Devices <i>Ya-Fen Wu, Jiunn-Chyi Lee</i>	K-9254. Development of a Safe and Energy Efficiency Water Heater by Induction Heating <i>Huy-Tien Bui, Sheng-Jye Hwang, Huei-Huang Lee, Durn-Yuan Huang, Zen-Jie Wang</i>
Poster 2-3.	Poster 2-11.
K-8976. Impact Deformation Behaviour and Microstructural Evolution of AZ80 Magnesium Alloy under Different Temperatures <i>Woei-Shyan Lee, Cheng-Wen Chou, Ming-Chi Lu</i>	A-9303. Reduction of Sidewall Curl in Sheet Metal Forming of Advanced High Strength Steels via Blank Holder Force <i>Meng-Chieh Wang, Sin-Liang Lin, Chun-Kai Hsu, Kuan-Ming Li, Fuh-Kuo Chen, Yi-Kai Lin</i>

Poster 2-4.	Poster 2-12.
<p>K-8982. Wireless Power Collection Using Radio Frequency Identification System <i>Chun-Hsi Su, Shih-I Huang</i></p>	<p>F-9426. Development of A Computer-Aided Analysis System for Assembly Precision of A Machine Tool <i>Zing-Ping Liu, Jhy-Cherng Tsai, Chun-Jung Su</i></p>
Poster 2-5.	Poster 2-13.
<p>D-9076. A Study on Maximum Effective Face Width without Tooth Pointing of Curvilinear Gears Generated by Male Fly Cutters <i>Yi-Cheng Chen, Zhi-Wei Li, Chien-Cheng Lo, Zhi-Gen Wang, Chien-Sheng Liu</i></p>	<p>K-9510. Tolerance and Motion Analysis of Antenna Mast <i>Jau-Liang Chen, Ming-Hong Shih, Chen-Yang Hong, Xun-Yao Lin, Chih-Wei Chao, Jhy-Cherng Tsai, Chi-Hang Lin</i></p>
Poster 2-6.	Poster 2-14.
<p>K-9095. Optimum Design of Bipod Flexures on a Spaceborn Primary Mirror under Different Conditions <i>Chia-Yen Chan, Shenq-Tsong Chang, Yi-Kai Huang, Ting-Ming Huang</i></p>	<p>F-9714. Fiber Bragg Grating Interrogation System for Angular Velocity Measurement <i>Ming-Chang Shih, Ying-Hong Lin, Ying-Hong Lin, Ming-Chang Shih</i></p>
Poster 2-7.	Poster 2-15.
<p>A-9106. The optimal blank shape of the oil pan deep drawing <i>Yen-Liang Yeh, Hsien-Jung Hsu, Ming-Jyi Jang, Hung-Pu Yeh</i></p>	<p>K-9740. EEG Coherence of Recognition Memory: Inter Hemispheric Connectivity Analysis <i>Li-Pen Chao, Jiin-Po Wu</i></p>
Poster 2-8.	Poster 2-16.
<p>E-9190. The Study of Optimal Parameters on Metal Surgical Guide Tubes Structure Design for Spinal Fusion Surgery <i>Chia-Hung Yeh, Fuh-Yu Chang, Yi-Tse Chang, Hong-Tsu Young</i></p>	<p>K-9744. Simulation on Geological CO₂ Storage in the Western Taiwan Basin <i>Neng-Chuan Tien, Cai Li, Keni Zhang, Chun-Ping Jen</i></p>
	Poster 2-17.
	<p>I-9053. Analysis of Workpiece-Clamp AE Signals for Tool Wear Monitoring System in the Milling of Inconel 718 <i>Chen-Yu Liang, Ming-Chyuan Lu</i></p>