

Advance Program

Nov. 5 (Thu.)				
Check In Service		Lobby		
15 : 30 - 17 : 30		Charge Man	Mr. Chia-Chun Kuo	
Nov. 6 (Fri.)				
08 : 30 - 09 : 30	<i>Opening and Awarding Ceremony</i>			
Keynote Speech, Invited Talk and Oral Session Schedule				
KS - 09H	09 : 30 - 11 : 10	Chair Man	Prof. Ming-Chuan Wang	
09 : 30 - 09 : 50	Keynote Speech	Juin J. Liou	Taiwan	Conference Room I
Topic	On-Chip Spiral Inductor Design and Modeling for RF Applications			
09 : 50 - 10 : 10	Keynote Speech	Frank Schwierz	Germany	Conference Room I
Topic	CMOS Scaling and Moore's Law Past, Present, and Future			
10 : 10 - 10 : 30	Keynote Speech	Ibrahim M. Abdel-Motaleb	USA	Conference Room I
Topic	Ultrasound Shadow Moiré Imaging: principles and potential applications			
10 : 30 - 10 : 50	Keynote Speech	Francisco Javier García-Sánchez	Spain	Conference Room I
Topic	A design centric curriculum for technical leaders and innovators			
10 : 50 - 11 : 10	Keynote Speech	Pey Kin Leong	Singapore	Conference Room I
Topic	A design centric curriculum for technical leaders and innovators			
Invited Session Schedule				
IT - 09H	09 : 30 - 10 : 45	Chair Man	Henry Horng-Shing Lu	
09 : 30 - 09 : 45	Invited Talk	I20200929795208	Taiwan	Conference Room II

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PESCADORES RESORT Hotel, Mogong, Penghu, Taiwan, Nov. 5-8, 2020.

Title	<i>Instance Segmentation based Deep Learning Approach for Industrial Inspection Application</i>			
Name	Wen-Huang Cheng¹, Yu-Ming Hu¹, Jia-Jin Xie¹, Tai-Hwei Hwang², Hong-Hen Shuai³			
	¹ Institute of Electronics, National Chiao Tung University, Hsinchu, Taiwan			
	² Computational Intelligence Technology Center (CITC), Industrial Technology Research Institute (ITRI)			
	³ Department of Electrical and Computer Engineering, National Chiao Tung University, Hsinchu, Taiwan			
09 : 45 - 10 : 00	Invited Talk	O20200930982410	Taiwan	Conference Room II
Title	<i>Video Instance Segmentation with Instance Mask Coefficients</i>			
Name	Shih-Shinh Huang *, Yu-Zhen Huang, and Feng-Chia Chang			
	Department of Computer and Communication Engineering, National Kaohsiung University of Science and Technology, National Chung-Shan Institute Science and Technology Taoyuan, Taiwan			
10 : 00 - 10 : 15	Invited Talk	I20200929502224	Taiwan	Conference Room II
Title	<i>Trajectory Forecasting Using LSTM and Transformer Networks: Improving Performance and Intention-awareness with Pre-processing Techniques</i>			
Name	Dmitrii Matveichev¹, Daw-Tung Lin^{1*}, Yu-Sheng Tseng², Chia-Hsin Chan			
	¹ Department of Computer Science and Information Engineering National Taipei University			
	² Smart System Institute, Institute for Information and Industry			
10 : 15 - 10 : 30	Invited Talk	I20200929304373	Taiwan	Conference Room II
Title	<i>Un-rectifying Non-linear networks and optimizations</i>			
Name	Wen-Liang Hwang*, Andreas Heinecke			
	[*] Institute of Information Science, Academia Sinica, Taiwan, Yale-NUS College, Singapore			
10 : 30 - 10 : 45	Invited Talk	I20200928749929	Taiwan	Conference Room II
Title	<i>Integration of Deep Learning and Statistical Analytics for Ai Assisted Clinics</i>			
Name	Henry Horng-Shing Lu*			
	Institute of Statistics, National Chiao Tung University, Taiwan, ROC			

Oral Session Schedule

OP - 10H	10 : 45 - 11 : 25	Chair Man	Yu-Huei Cheng
10 : 45 - 10 : 55	O20200926204552	Taiwan	Conference Room II
Title	<i>Functional RDL of FOPLP by Using Thin Film Passive Device for 5G Applications</i>		
Name	Tzu-Yang Ting, Yu-Hua Chung, Chieh-Wei Feng, Tzu-Yen Chang, JuiWen Yang, and		

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Terry Tai-Jui Wang			
<i>Circuit Design and Integration Department Electronic and Optoelectronic System Research Laboratories (ESOL) Industrial Technology Research Institute (ITRI), Hsinchu, Taiwan.</i>			
10 : 55 - 11 : 05	O20200929214448	Taiwan	Conference Room II
Title	<i>SH_P Ring and Concentration Gradient for ESD Enhancement in UHV Circular nLDMOS Transistors</i>		
Name	Tien-Yu Lan, Shen-Li Chen*, Yu-Jie Zhou, Shi-Zhe Hong, Zhi-Wei Liu and Jhong-Yi Lai		
<i>Department of Electronic Engineering, National United University, Miaoli City 36063, Taiwan</i>			
11 : 05 - 11 : 15	O20200929282651	Taiwan	Conference Room II
Title	<i>New Methods to Improve ESD Immunity on HV pLDMOS Devices with Drain-side Embedded Horizontal SCR Modulations</i>		
Name	Shi-Zhe Hong, Shen-Li Chen*, Sheng-Kai Fan, Tien-Yu Lan, Yu-Jie Zhou, Jhong-Yi Lai and Zhi-Wei Liu		
<i>Department of Electronic Engineering, National United University, Taiwan, R.O.C</i>			
11 : 15 - 11 : 25	O20200929374746	Taiwan	Conference Room II
Title	<i>Sequential Duck Egg 2D Image Based on Image Stitch Algorithm</i>		
Name	Cheng-Hsien Yu¹, Li-Syuan Chen¹, Jeanne Chen¹, Ching-Wei Cheng², Tung-Shou Chen¹ and Wien Hong^{1*}		
<i>¹National Taichung U of Sc and Tech, Dep of Comp Sci & Info Eng, Twn</i>			
<i>²National Taichung U of Sc and Tech, Dep of Info Mgt, Twn</i>			
OP - 11H	11 : 25 - 12 : 05	Chair Man	Prof. Chien-Min Cheng
11 : 25 - 11 : 35	O20200930265193	Taiwan	Conference Room II
Title	<i>Development of A See-Through Interaction System for Precision Surgical Navigation</i>		
Name	Yu-Hsiang Tsai*, Yu-Hsuan Su, Yu-Tzu Yi, and Kuan-Ting Chen		
<i>Electronic and Optoelectronic System Research Laboratories, Industrial Technology Research Institute, Hsinchu, Taiwan 310, R.O.C.</i>			
11 : 35 - 11 : 45	O20200930523835	Taiwan	Conference Room II
Title	<i>Attitude Towards Old People and Their Relation to Mental Health and Filial Piety Among University Students in Taiwan</i>		
Name	Stephanie Yang^{1*}, Hsueh-Chih Chen^{1,2,3,4}		

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¹Department of Educational Psychology and Counseling, National Taiwan Normal University, Taipei, Taiwan

²Institute for Research Excellence in Learning Sciences, National Taiwan Normal University, Taipei, Taiwan

³Chinese Language and Technology Center, National Taiwan Normal University, Taipei, Taiwan

⁴MOST AI Biomedical Research Center, Taipei, Taiwan

11 : 45 - 11 : 55

O20200930617146

Taiwan

Conference Room II

Title *Design and implementation of a wire-controlled chassis module for autonomous vehicles*

Name Ping-Hung Shih^{1*}

Distinguished Professor Yi-Hsuan Hung², Yu-Hsuan Lin³, Li-Fan Liu³, Hong-Kai Liu³, Chu-Yang Chiu³, Shih-Chi Yang³, Bi-Xiang Liang³, Wei Kai Huang³

¹Department of Industrial Education, National Taiwan Normal University Undergraduate Program of Vehicle and Energy Engineering, National Taiwan Normal University

²Department of Power Mechanical Engineering, National Tsing Hua University

³Department of Industrial Education, National Taiwan Normal University

11 : 55 - 12 : 05

P20200928743783

Taiwan

Conference Room II

Title *Development of Database for Weather Forecast in Taiwan*

Name Ying-Cheng He *, Sung-Pei Yang , Yi-Liang Hu

Green Energy Technology Research Center, Kun Shan University

12 : 00 - 13 : 30

Luncheon

OP - 13H

13 : 30 - 14 : 30

Chair Man

Prof. Bao Rong Chang

13 : 30 - 13 : 40

O20200919480531

Taiwan

Conference Room II

Title *A Study of Stock Selection Models Using Long Short-Term Memory Neural Networks*

Name Chien-Feng Huang^{1*}, Ming-Wei Tsai¹, Chia-Chun Lin¹, and Bao Rong Chang¹

¹Dept. of Computer Science and Information Engineering, National University of Kaohsiung, Taiwan

13 : 40 - 13 : 50

O20200811804161

Taiwan

Conference Room II

Title *Optimization of Keyword-Enabled Program Generation System*

Name Bao Rong Chang¹, Hsiu-Fen Tsai², Po-Wen Su¹, and Chien-Feng Huang¹

¹National University of Kaohsiung, Taiwan.

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² Kaohsiung Medical University, Taiwan

13 : 50 - 14 : 00

P20200821701725

Taiwan

Conference Room II

Title *Table Tennis Scoring System Based On Deep Residual Network*

Name **Yu-Huei Cheng¹, Yao-Cong Chen², and Che-Nan Kuo^{3,*}**

¹Department of Information and Communication Engineering, Chaoyang University of Technology, Taichung, Taiwan

³Department of Artificial Intelligence, CTBC Financial Management College, Tainan, Taiwan

14 : 00 - 14 : 10

O20201008986910

Taiwan/China

Conference Room II

Title *Drug Verification System based on Deep Learning Multi-Scale Rotating Rectangle Detector and Feature Embedding*

Name **Wei-Yan Jang¹, Che-Wen Chen¹, Shih-Pang Tseng², Jhing-Fa Wang¹**

¹Department of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan

²School of Software and Big Data, Changzhou College of Information Technology, Changzhou, China

14 : 10 - 14 : 20

O20200929147481

Taiwan

Conference Room II

Title *Comparative Studies of DC performances in Dual gate (DG) and Multi gate (MG) Floating Metal AlGaN/GaN MIS-HEMT with Relatively High-K and Low-K Gate Dielectric Material*

Name **Soumen Mazumder, Zhan-Gao Wu, Ssu-Hsien Li, and Yeong-Her Wang***

Institute of Microelectronics, Department of Electrical Engineering, National Cheng-Kung University, Tainan, Taiwan

14 : 20 - 14 : 30

P20200930340074

Taiwan

Conference Room II

Title *Ornamental Fish Classification Based on Deep Learning Technique*

Name **Chi-Tsai Yeh**

Changzhou College of Information Technology

OP - 13H

14 : 30 - 15 : 30

Chair Man

Shu-Ching Wang

14 : 30 - 14 : 40

O20200905953283

China

Conference Room II

Title *Enhance The Precise Positioning Service of The IOT Through Context Awareness*

Name **Chih-Ming Chang, Meei-Chen Ho**

Baise University, Guangxi University of Finance and Economics

14 : 40 - 14 : 50

O20200909989529

Taiwan

Conference Room II

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Title	<i>Improve The Reliability of A Cellular IOT Based on Edge Computing With Fault-Tolerant Communication</i>		
Name	Shin-Hung Pan and Shu-Ching Wang* <i>Asia University, Chaoyang University of Technology</i>		
14 : 50 - 15 : 00	O20200909985871	Taiwan	Conference Room II
Title	<i>Integration of Innovative Music Education With Multi-Sensory Digital And Reality Interaction</i>		
Name	Chin-Ling Ho^{1,2}, Tsang-Gang Lin³, Chan-Ru Chang³ <i>¹National Taiwan Symphony Orchestra ²Chaoyang University of Technology ³Service Systems Technology Center, Industrial Technology Research Institute</i>		
15 : 00 - 15 : 10	O20200914203032	Taiwan	Conference Room II
Title	<i>Based on Aquaponics Combined with Humancomputer Interaction to Achieve Green Care</i>		
Name	Wei-Ling Lin¹, Chun-Hung Hsieh², Jian-Le Lee², Tung-Shou Chen², Jeanne Chen² and Wei-Chung Chen² <i>¹Chaoyang University of Technology (National Taichung University of Science and Technology) ²National Taichung University of Science and Technology</i>		
15 : 10 - 15 : 20	O20200914514364	Taiwan	Conference Room II
Title	<i>Apply IOT Technology to Practice An Epidemic Prevention Body Temperature Measurement System - A Case Study of Response Measures for Covid-19</i>		
Name	Wei-Ling Lin¹, Chun-Hung Hsieh², Jian-Le Lee², Tung-Shou Chen², Jeanne Chen² and Wei-Chung Chen² <i>¹Chaoyang University of Technology (National Taichung University of Science and Technology), ²National Taichung University of Science and Technology</i>		
15 : 20 - 15 : 30	O20200922677811	Taiwan	Conference Room II
Title	<i>Identify Vehicles Dynamically on Highway CCTV Images Through YOLO Deep Learning Model</i>		
Name	Shin-Hung Pan*, Jheng-Wei Jian <i>Department of M-Commerce and Multimedia Applications, Asia University</i>		
OP - 15H	15 : 30 - 16 : 30	Chair Man	Chien-Yu Lu

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15 : 30 - 15 : 40

O20200923296075

Taiwan

Conference Room II

Title *Design and Control of a 6-DOF Robot Manipulator Using Pneumatic Muscles and Motor Combination Drive*

Name **Lian-Wang Lee¹, Chien-Yu Lu², Te-Jen Su³, Tzu-Hsuan Tseng¹, and I-Hsum Li⁴**

¹Department of Mechanical Engineering, National Chung Hsing University, Taiwan

²Department of Industrial Education and Technology, National Changhua University of Education, Taiwan,

³Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Taiwan,

⁴Department of Mechanical and Electro-Mechanical Engineering, Tamkang University, Taiwan

15 : 40 - 15 : 50

O20200929961663

Taiwan

Conference Room II

Title *Applying Internet of Things for Data Monitoring of Powered Wheelchairs*

Name **Chien-Yu Lu¹, Chia-Liang Tseng¹, Wen-Yih Horng¹, Yu-Shan Chiu¹ and Te-Jen Su²**

¹Department of Industrial Education and Technology, National Changhua University of Education, Changhua City, Taiwan 500, ROC,

²Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan 807618, ROC

15 : 50 - 16 : 00

O20200929905665

Taiwan

Conference Room II

Title *Designing Positioning Coordinates of Powered Wheelchairs with Radio Frequency Identification*

Name **Chien-Yu Lu¹, Hui-Fen Wu¹, Ching-Chou Tai¹, Kai-Yi Hsueh¹ and Te-Jen Su²**

¹Department of Industrial Education and Technology, National Changhua University of Education, Changhua City, Taiwan 500, ROC,

²Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan 807618, ROC

16 : 00 - 16 : 10

O20200929634585

Taiwan

Conference Room II

Title *Design Long-Term Care Management System*

Name **Yu-Qiang Yang¹, Chien-Yu Lu¹, Hsiu-Ying Hsieh¹, Tsung-Chieh Chang¹ and Te-Jen Su²**

¹Department of Industrial Education and Technology, National Changhua University of Education, Changhua City, Taiwan 500, ROC,

²Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan 807618, ROC

16 : 10 - 16 : 20

O20200929842379

Taiwan

Conference Room II

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Title	<i>Use Infrared Module and Laser Ranging Module Monitoring Tread Pattern of Powered Wheelchair</i>			
Name	Chien-Yu Lu¹, Rong-Chu Sung¹, Lian-Wang Lee¹, Wei-Lun Huang¹ and Te-Jen Su²			
	¹ Department of Industrial Education and Technology, National Changhua University of Education, Changhua City, Taiwan 500, ROC, ² Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Kaohsiung City, Taiwan 807618, ROC			
16 : 20 - 16 : 30	O20200930107617	Taiwan	Conference Room II	
Title	<i>A classifier combined with Neuron Network and Support Vector Machine</i>			
Name	Hsun-Heng Tsai¹, Chiang-Nan Chang², Yu-li Li², Te-Jen Su³, and Chien-Yu Lu^{4*}			
	¹ Department of Biomechatronics Engineering, National Pingtung University of Science and Technology, Taiwan. ² Department of Mechanical Engineering, National Central University, Taiwan. ³ Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Taiwan. ^{4*} Department of Engineering and Education, National Chanhua Universsity of Education.			
OP - 16H	16 : 30 - 17 : 30	Chair Man	Yeu-Long Jiang	
16 : 30 - 16 : 40	O20200918748924	Taiwan	Conference Room II	
Title	<i>The Estimation of Screw Physical Properties by Using Neural Network</i>			
Name	Nan Hua Lu¹, Huang-Chu Huang², Shan-Jun Wu¹, and Rey-Chue Hwang^{1*}			
	¹ Department of Electrical Engineering, I-Shou University, Taiwan. ² Department of Telecommunication Engineering, National Kaohsiung University of Science and Technology, Taiwan.			
16 : 40 - 16 : 50	O20200927239071	Taiwan	Conference Room II	
Title	<i>Hydrogenated amorphous silicon thin-film solar cells for indoor use</i>			
Name	Yeu-Long Jiang[*], Wan-Ping Wu			
	Graduate Institute of Optoelectronic Engineering and Department of Electrical Engineering, National Chung Hsing University, Taichung 402, Taiwan, Republic of China			
16 : 50 - 17 : 00	O20200922943662	Taiwan	Conference Room II	
Title	<i>Resistive Random Access Memory Based On CsPbBr3 Perovskite</i>			
Name	Ye-Hsin Ko^{1,2}, Chih-Chiang Yang^{2,*}, Yan-Kuin Su^{1,2,*}			
	¹ Institute of Microelectronics, National Cheng Kung University, No. 1, Daxue Rd., East Dist., Tainan City 701, Taiwan ² Green Energy Technology Research Center, Department of Electrical Engineering, Kun Shan University, No. 195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan.			

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17 : 00 - 17 : 10

O20200923826167

Taiwan

Conference Room II

Title *Investigation of RRAM fabricated at room temperature with Solution-Processed NiO Nanoparticles*

Name **Yun-Ting Tsai^{1,2}, Chia-Wen Lee¹, Chih-Chiang Yang^{2,*}, Yan-Kuin Su^{1,2,*}**

¹Institute of Microelectronics, National Cheng Kung University, No. 1, Daxue Rd., East Dist., Tainan City 701, Taiwan

²Green Energy Technology Research Center, Department of Electrical Engineering, Kun Shan University, No.195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan

17 : 10 - 17 : 20

O20200924872742

Taiwan

Conference Room II

Title *Planning and Research of Distribution Feeder Automation with Decentralized Power Supply*

Name **Yen-Chih Huang¹, Yih-Der Lee², Jing-Wen Shen², Hsuan Hsu¹, Cheng-Chien Kuo^{*1}**

¹Department of Electrical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan.

²Institute of Nuclear Energy Research, Taoyuan, Taiwan.

17 : 20 - 17 : 30

O20200922474391

Taiwan

Conference Room II

Title *Improved Surface Morphology and Efficiency of Quantum Dot Light Emitting Diodes by Doping PVK*

Name **Yan-Hao Wang^{1,2}, Hsin-Yu Pan¹, Jia-Zhen Li¹, Chih-Chiang Yang^{2,*}, Yan-Kuin Su^{1,2,*}**

¹Institute of Microelectronics, National Cheng Kung University, No. 1, Daxue Rd., East Dist., Tainan City 701, Taiwan

²Green Energy Technology Research Center, Department of Electrical Engineering, Kun Shan University, No.195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan

17 : 30 - 21 : 00

Banquet

Oral Session Schedule

OP - 11H

11 : 10 - 12 : 10

Chair Man

Prof. Hui-Huang Hsieh

11 : 10 - 11 : 20

O20200929649370

Taiwan

Conference Room I

Title *Fabricated Indium-Gallium-Oxide Ultraviolet Photodetectors by co-sputtering*

Name **Yung-Hu Fan^{1,2,3}, Kuan-Yu Chen², Chih-Chiang Yang³, Chien-Sheng Huang^{1,*} and Yan-Kuin Su^{2,3}**

¹Department of Electronic Engineering, National Yunlin University of Science and Technology, 123 University Road, Section 3, Douliou, Yunlin 64002, Taiwan

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²Department of Electrical Engineering, Institute of Microelectronics, National Cheng Kung University, No.1, University Road, Tainan City 701, Taiwan

³Green Energy Technology Research Center, Department of Electrical Engineering, Kun Shan University, No.195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan

11 : 20 - 11 : 30

O20200930808309

Taiwan

Conference
Room I

Title *Temperature Feedback Control and Web Warning System for Hot Plate Based on Thermal Image*

Name **Hui-Huang Hsieh^{1*}, Shun-Lung Yen¹, Ing-Jiunn Su¹**

¹Department of Electrical and Electronic Engineering, Chung-Cheng Institute of Technology, National Defense University, Taoyuan, 33551, Taiwan, R. O. C

11 : 30 - 11 : 40

O20200930395815

Taiwan

Conference
Room I

Title *ESD Reliability Design of IGBT Cells with Parasitic Schottky Diodes in the Drain Side*

Name **Yu -jie Zhou, Shen Li Chen*, Tien-Yu Lan, Shi-Zhe Hong, Liu Zhi-Wei and Zhong-Yi La**

Department of Electronic Engineering, National United University, Taiwan

11 : 40 - 11 : 50

O20200930858441

Taiwan/
Philippines

Conference
Room I

Title *Long-term Solar Power Forecasting using Grey Model in Taiwan*

Name **June Raymond L. Mariano^{1,2}, Herchang Ay^{1*}**

¹Department of Mold and Die Engineering, National Kaohsiung University of Science and Technology, Taiwan, R.O.C,

²Department of Mechanical and Allied Engineering, Technological University of the Philippines-Taguig Campus,

11 : 50 - 12 : 00

O20201003706573

Taiwan

Conference
Room I

Title *Application Of Embedded Sensor Systems to Improve Safety for Container Ships in Cargo Loading or Unloading Operations*

Name **Chun-Pong Wong¹, Chao-Lin Kuo², Yu-Chi Pu^{2*}, Ching-Yang Chen²**

¹Department of Shipping Technology, National Kaohsiung University of Science and Technology, Cijin District, Kaohsiung City, 80543, Taiwan.

²Department of Maritime Information and Technology, National Kaohsiung University of Science and Technology, Cijin District, Kaohsiung City, 80543, Taiwan.

12 : 00 - 12 : 10

O20201007997703

Taiwan

Conference
Room I

Title *Simulation and Experimental Verification of a Thermal Management System for the Emulated Fuel Cell / Lithium Battery Energy System*

Name **Yu-Hsuan Lin*, Yi-Hsuan Hung, Che-Wun Hong, Chu-Yang Chiu, Bi-Xiang Liang,**

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Wei-Kai Huang, Shih-Chi Yang, Li-Fan Liu, Hong-Kai Liu

*Department of Power Mechanical Engineering, National Tsing Hua University.
Undergraduate Program of Vehicle and Energy Engineering, National Taiwan Normal University*

*Department of Power Mechanical Engineering, National Tsing Hua University.
Department of Industrial Education, National Taiwan Normal University*

12 : 00 - 13 : 30

Luncheon

OP - 13H

13 : 30 - 14 : 30

Chair Man

Prof. Wei-Cheng Chiu

13 : 30 - 13 : 40

O20200929110232

Taiwan

Conference Room I

Title

Establish a relationship between the chroma and the thickness of a germanium ultra-thin film

Name

Heng-Xiao Chen and Wen-Ray Chen*

Department of Electronic Engineering, National Formosa University, Yunlin 632, Taiwan

13 : 40 - 13 : 50

O20200930562817

Taiwan

Conference Room I

Title

Experimental Study on Performance and Emissions Characteristics of Ethanol-Diesel Blends in a Diesel Engine

Name

Wei-Cheng Chiu¹, Chung-Yao Hsuan¹, Ming-Da Lai², Tser-Son Wu², Shuhn-Shyurng Hou^{1,2,*}

¹Green Energy Technology Research Center, Kun Shan University, Tainan 710,

²Department of Mechanical Engineering, Kun Shan University, Tainan 710

13 : 50 - 14 : 00

O20200930340489

Taiwan

Conference Room I

Title

Analysis of the High Efficiency p-Si/i-BaSi₂/n-Si Solar Cell

Name

Jung-Sheng Huang*, Kuan-Wei Lee, Jun-Cheng Ma, Chien-Jui Chen, Wei-Cheng Lin, Po-Ching Wu and Ze-Jui Zhong

Department of Electronic Engineering, I-Shou University, Kaohsiung 840, Taiwan, ROC

14 : 00 - 14 : 10

O20201008580601

Taiwan

Conference Room I

Title

Harmonic Analysis of a Transmission System with Dispersed Renewable Generation

Name

Feng-Wei Huang, Min-Chuan Lin*, Guo-Lun Huang, Che-Wei Chang, and Zih-Syuan Lin

Green Energy Technology Research Center, KSU

14 : 10 - 14 : 20

O20201008834171

Taiwan

Conference Room I

Title

A method for beacon navigator based on non-precise positioning – An example of a

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<i>campus in central Taiwan</i>			
Name	Yan-Hao Zhang¹, Tung-Shou Chen¹, Jason Lin² and Jeanne Chen^{1*}		
	¹ Dep of Comp Sci & Info Eng, National Taichung U of Sc and Tech, Taiwan ² International School of Tech. and Mgmt, Feng Chia University		
14 : 20 - 14 : 30	O20200929526318	Taiwan	Conference Room I
Title	256 Ppi Pm Micro-Led Display Via A Laser Direct Writing Technique		
Name	Po-Wei Chen¹, Po-Wen Hsiao¹, Po-Chen Shen², Hsuan-Jen Chen¹, and Dong-Sing Wu^{1*}		
	¹ Department of Materials Science and Engineering, National Chung Hsing University, Taichung 40227, Taiwan ² Epileds Technologies, Incorporated, Tainan 741148, Taiwan		
OP - 14H	14 : 30 - 15 : 30	Chair Man	Prof. Lung-Jen Wang
14 : 30 - 14 : 40	O20200924102535	Taiwan	Conference Room I
Title	Magnetic and magneto-optical properties of magnetite nanoparticles synthesized under atmospheric pressure		
Name	Aleksandr A. Spivakov^{1*}, Chun - Rong Lin¹, En-Szu Lin¹, Ying-Zhen Chen¹, and Bing-Yi Chen¹		
	¹ Department of Applied Physics, National Pingtung University, Pingtung County 90003, Taiwan		
14 : 40 - 14 : 50	O20201012379025	Taiwan	Conference Room I
Title	Water Quality Analysis of Clam Farming for Aerial Photography based on Convolutional Neural Network		
Name	Lung-Jen Wang^{1*} and Lai Chee Hou²		
	¹ National Pingtung University, ² National Pingtung University,		
14 : 50 - 15 : 00	O20201016484255	Taiwan	Conference Room I
Title	A Novel LED Driver with HPF and Current Balancing Capability		
Name	Yong-Nong Chang¹, Yih-Her Yan¹, Chun-An Cheng², Chien-Hsuan Chang², Lain-Chyr Hwang², Zong-Xun Wu², Hung-Liang Cheng^{2,*}		
	¹ Department of Electrical Engineering, National Formosa University, HuWei, Yunlin, Taiwan, R.O.C. ² Department of Electrical Engineering, I-Shou University Kaohsiung, Taiwan, R.O.C.		
15 : 00 - 15 : 10	O20200930755351	Taiwan	Conference Room I

The 6th IEEE and 7th The International Conference on Science, Education and Viable Engineering (ICSEVEN 2020)

PESCADORES RESORT Hotel, Mogong, Penghu, Taiwan, Nov. 5-8, 2020.

Title	<i>Thermodynamic Analysis of Heat Transfer Effects on the Performance of an Air Standard Miller Cycle</i>			
Name	Shih-Hsun Chu^{1,2}, Shuhn-Shyurng Hou^{1,2,*}			
	¹ Department of Mechanical Engineering, Kun Shan University, Tainan 710, Taiwan. ^{2,*} Green Energy Technology Research Center, Kun Shan University, Tainan 710, Taiwan			
15 : 10 - 15 : 20	O20200930943726	Taiwan	Conference Room I	
Title	<i>Micro-explosion and Ignition Characteristics of Single Droplets of Butanol/Diesel Blends</i>			
Name	Cheng-Chieh Li^{1,2}, Shuhn-Shyurng Hou^{1,2,*}			
	¹ Department of Mechanical Engineering, Kun Shan University, Tainan 710, Taiwan. ^{2,*} Green Energy Technology Research Center, Kun Shan University, Tainan 710, Taiwan.			
15 : 20 - 15 : 30	O20200930991425	Taiwan	Conference Room I	
Title	<i>Review of Control Strategies for Increasing PV Hosting Capacity in Distribution Network</i>			
Name	Yi-Liang Hu*, Sung-Pei Yang			
	Green Energy Technology Research Center, Kun-Shan University			
OP - 15H	15 : 30 - 16 : 30	Chair Man	Prof. Sung-Tsun Shih	
15 : 30 - 15 : 40	O20200923179105	Taiwan	Conference Room I	
Title	<i>Localized Obstacle Avoidance With Haptic-Based Interface For The Visually Impaired And Blind</i>			
Name	Aaron Raymond See*, Yu Ta Chou, and Leonheart Van Costillas			
	Department of Electrical Engineering, Southern Taiwan University of Science and Technology, Tainan City 710, Taiwan			
15 : 40 - 15 : 50	O20200923647520	Taiwan	Conference Room I	
Title	<i>T - Distributed Stochastic Neighbor Embedding For Heart Sound Classification</i>			
Name	Aaron Raymond See*, Yu Cheng Huang, and Inah Salvador Cabil			
	Department of Electrical Engineering, Southern Taiwan University of Science and Technology, Tainan City 710, Taiwan			
15 : 50 - 16 : 00	O20200929127506	Taiwan/China	Conference Room I	
Title	<i>An improved gray-to-color conversion scheme using prediction of color channels</i>			
Name	Zheng-Feng Lin¹, Jie Wu², Wien Hong^{*1}, Tung-Shou Chen¹, Jeanne Chen¹ and Jason Lin³			

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¹ Dep of Comp Sci & Info Eng, National Taichung U of Sc and Tech, Taiwan

² Dep of Elec & Comp Eng, Nanfang College of Sun Yat-Sen University, China

³ International School of Tech. and Mgmt, Feng Chia University,

16 : 00 - 16 : 10

O20200929450876

Taiwan

Conference Room I

Title *Studies of Sovereign Credit Risk Ratings: An Application of Panel Date Analysis*

Name **Yi-Ling Ju¹, Yu-Lung Wu², Shih-Fu Sung^{3*}**

¹Department of Information Engineering ,I-Shou University,Taiwan.

²³Department of Information Management ,I-Shou University,Taiwan

16 : 10 - 16 : 20

O20200929600252

Taiwan/China

Conference Room I

Title *Utilizing Sensing Technology to Predict and Analyze the Activities of Employees On Shuttle Boat for Improving Human Resource Management*

Name **Min-Chuan Huang¹, Shih-Fu Sung², and Yung-Chun Chen³**

¹Department of Computer Science and Technology Academy, Guangdong University of Petrochemical Technology, China

²Department of Information Management, I-Shou University, Taiwan

³Department of Information Engineering, I-Shou University, Taiwan

16 : 20 - 16 : 30

O20201012215788

Taiwan

Conference Room I

Title *A Light Monitoring System with Smartphone Control Technology based on Industry 4.0*

Name **Sung-Tsun Shih^{1*} ,Chian-Yi Chao² ,Wen-Tien Chang¹ and Yuan-Long Hsu¹**

¹Department of Electronic Engineering, Cheng Shiu University, Kaohsiung, Taiwan

²Department of Electronic Engineering, Kao Yuan University, Kaohsiung, Taiwan

OP - 16H

16 : 30 - 17 : 30

Chair Man

Prof. Chung-Yao Hsuan

16 : 30 - 16 : 40

O20200929421359

Taiwan

Conference Room I

Title *Study on Specific Contact Resistivity of Vanadium-Vanadium Oxide Interface Annealed in Different Atmospheres*

Name **Yu-Pei Lin and Wen-Ray Chen***

Department of Electronic Engineering, National Formosa University, Yunlin 632, Taiwan.

16 : 40 - 16 : 50

O20200925645869

Taiwan

Conference Room I

Title *Thermogravimetric Analysis of Sludge-Coal Blends under Oxygen/Recirculated Flue Gas Atmospheres*

Name **Chung-Yao Hsuan ¹, Shuhn-Shyurng Hou ^{1,2,*}**

¹Green Energy Technology Research Center, Kun Shan University, Tainan 710, Taiwan.

^{2,*}Department of Mechanical Engineering, Kun Shan University, Tainan 710, Taiwan.

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16 : 50 - 17 : 00

O20200922964447

Taiwan

Conference Room I

Title *Electrochromic Effects Of The V2O5 Thin Film As Ionic Storage Layer*

Name **Tien-Chai Lin¹, Bai-Jhong Jheng¹, Zhao-Hong Yang^{1,2} Wen-Chang Huang^{1,2*}**

¹Department of Electrical Engineering, Kun Shan University, No. 195, Kun-Da Rd., Yung-Kang Dist., Tainan, 71003, Taiwan, ROC

²Green Energy Technology Research Center, Kun Shan University, No. 195, Kun-Da Rd., Yung-Kang Dist., Tainan, 71003, Taiwan, ROC

17 : 00 - 17 : 10

O20200929961344

Taiwan

Conference Room I

Title *Evaluate the effect of die-bonding adhesive on the light decay of blue LEDs after being irradiated with blue light through room temperature aging test*

Name **Hao-Yu Wang, Tsung-Han Weng and Chun-Liang Lin***

Department of Electrical Engineering and Green Energy Technology Research Center, Kun Shan University, Taiwan, R.O.C.

17 : 10 - 17 : 20

O20200930331225

Taiwan

Conference Room I

Title *Evaluation of the sterilization effectiveness of DUV LED irradiation static reclaimed water by irradiation time*

Name **Wei-Zhang Li¹ and Chun-Liang Lin^{*,1,2}**

¹Green Energy Technology Research Center, Kun-Shan University, No.195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan (R.O.C.)

²Department of Electrical Engineering, Kun Shan University, No.195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan (R.O.C.)

17 : 30 - 21 : 00

Banquet

Poster Session Schedule

PP - 13H

13 : 30 - 14 : 30

P20201008126103

Taiwan

Meeting Room

Title *Could Bilateral Projection Two Dimensional Principal Component Analysis Neural Networks serve as a Sensitive Preliminary Early Warning Tool*

Name **Juing-Shian Chiou**

Department of Electrical Engineering, Southern Taiwan University of Science and Technology, No. 1, Nan-Tai Street, Yungkang Dist., Tainan City, Taiwan

P20200807369352

Taiwan

Meeting Room

Title *Weight Quantization in Spiking Neural Network for Hardware Implementation*

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PESCADORES RESORT Hotel, Mogong, Penghu, Taiwan, Nov. 5-8, 2020.

Name	M.B.G. Sulaiman, K.C. Juang, and C.C. Lu <i>Industrial Technology Research Institute, Taiwan</i>		
	P20200815363999	Taiwan	Meeting Room
Title	<i>Study on the key sensor module in medical field</i>		
Name	Han-Chi Chen¹, Sin-Liang Ou², Shih-Hung Lin³ and Yao-Chin Wang^{*1} <i>¹Cheng Shiu University, ²Da Yeh University, ³National Yunlin University of Science and Technology</i>		
	P20200908372062	Taiwan	Meeting Room
Title	<i>Preparation of a High-Resistance Carbon Black for Insulating Black Matrix</i>		
Name	Ching-Mao Wu*, Szu-Yin Lin, Ming-Tzung Wu, and Te-Yi Chang <i>Material and Chemical Research Laboratories, Industrial Technology Research Institute, Chutung, Hsinchu 31040, Taiwan.</i>		
	P20200908155534	Bulgaria	Meeting Room
Title	<i>A Review of Supercapacitors and Their Usage as a New Energy Power Source System for Electric Vehicles</i>		
Name	Miroslav Andreev <i>Department of Microelectronics, Technical university of Sofia</i>		
	P20200910379683	Taiwan	Meeting Room
Title	<i>Difficulty Level Classification of Calculus Exam Questions Based on Descriptive Symbol and Text Features of Questions</i>		
Name	Horng-Horng Lin, Chia-Hong Su, and Shing-Lin Chang* <i>Dept. of Computer Science and Information Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan</i>		
	P20200910896578	Taiwan	Meeting Room
Title	<i>High Protective Materials for Transparent Display</i>		
Name	Yu-Ju Kuo*, Dong-Sen Chen, Chun-Wei Su <i>Dpet. of Nano-Hybrid Materials and Application Research, ITRI, Hsinchu</i>		
	P20200910896635	Taiwan	Meeting Room
Title	<i>Application of CPS Mobile Learning in a Polygon Perspective Unit of Upper Grades at an Indigenous Elementary School</i>		
Name	Chao, Jen-Yi^{1*}, Liu¹, Chuan-His², Yeh, Yi-Hsin¹ <i>¹National Taipei University of Education ²National Taiwan Normal University</i>		
	P20200911419045	Taiwan	Meeting Room
Title	<i>Highly transparent, low Dk and Df polyimides for high-frequency application</i>		
Name	Li-Ting Huang*, Chih-Cheng Lin, and Chyi-Ming Leu <i>Material and Chemical Research Laboratories, Industrial Technology Research Institute,</i>		

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Hsinchu 31040, Taiwan

P20200914588790		China	Meeting Room
Title	<i>Enhanced Whole-Chip ESD Protection Robustness with Ge-source TFET</i>		
Name	Zhihua Zhu¹, Zhaonian Yang^{2*}, Xiaomei Fan¹, Yingtao Zhang¹, Juin J. Liou¹, and Wenbing Fan¹		
	¹ <i>Integrated Circuit Reliability Design and ESD Protection Lab., Zhengzhou University, Zhengzhou, 450001, China</i> ² <i>Shaanxi Key Laboratory of Complex System Control and Intelligent Information Processing, Xi'an University of Technology, Xi'an, 710048, China</i>		
P20200914637085		China	Meeting Room
Title	<i>ESD Behavior of InGaAs/InP Heterojunction Tunnel FET</i>		
Name	Zhihua Zhu¹, Zhaonian Yang^{2*}, Yingtao Zhang¹, Xiaomei Fan¹, Juin J. Liou¹, and Wenbing Fan¹		
	¹ <i>Integrated Circuit Reliability Design and ESD Protection Lab., Zhengzhou University, Zhengzhou, 450001, China</i> ² <i>Shaanxi Key Laboratory of Complex System Control and Intelligent Information Processing, Xi'an University of Technology, Xi'an, 710048, China</i>		
P20200915665525		Taiwan	Meeting Room
Title	<i>Reduction of RF losses and temperature-dependent characteristics for GaN-HEMTs on highly-resistive silicon substrate</i>		
Name	Tien-Tung Luong^{1*}, Chung-Han Chiang², Venkatesan Nagarajan¹, Tuan-Anh Nguyen¹, and Edward-Yi Chang^{1,2}		
	¹ <i>Department of Materials Science and Engineering, National Chiao Tung University, Taiwan, R.O.C.</i> ² <i>International College of Semiconductor Technology, National Chiao Tung University, Taiwan, R.O.C.</i>		
P20200916392636		Taiwan	Meeting Room
Title	<i>The Inferences of LiF Additions for the Perovskite Lead-Free Piezoelectric Vibration Sheets</i>		
Name	Mei-Li Chen¹, Kai-Huang Chen², Chien-Min Cheng^{3*}, and Ming-Hao Chang³		
	¹ <i>Department of Electro-Optical Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan</i> ² <i>Department of Digital Game and Animation Design, Tung-Fang Institute, Kaohsiung, Taiwan</i> ³ <i>Department of Electronic Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan</i>		
P20200917175258		Taiwan	Meeting Room
Title	<i>Developing a Picture-Text Conversion System to Ease the Communication of Subjects with Severe Disabled</i>		

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Name	Yeou-Jiunn Chen* , Shih-Man Chen, Bo-Yang Shi, and Yi-Xiang Huang		
	<i>Department of Electrical Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan</i>		
	P20200917808398	Taiwan	Meeting Room
Title	<i>Development of color conversion material for slim optical fingerprint recognition system</i>		
Name	Yu-Ling Hsu¹ , Ping-Chen CHEN ¹ , Pei-Chi Chien ¹ , and Ding-Zheng Lin ^{2*}		
	<i>¹Material and Chemical Research Laboratory, Industrial Technology Research Institute, Hsinchu, Taiwan, ROC,</i>		
	<i>²Department of Mechanical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan</i>		
	P20200918262141	Taiwan	Meeting Room
Title	<i>Fabrication and Characterization of InAlAs/InGaAs High-Electron Mobility Transistor with Stacked Gate Dielectric Layers</i>		
Name	Long-Ting Chung¹ , Jung-Sheng Huang ¹ , Kuan-Wei Lee ^{1*} , and Yeong-Her Wang ²		
	<i>¹Department of Electronic Engineering, I-Shou University, Kaohsiung 840, Taiwan.</i>		
	<i>²Institute of Microelectronics, Department of Electrical Engineering, National Cheng-Kung University, Tainan 701, Taiwan.</i>		
	P20200920755208	Taiwan	Meeting Room
Title	<i>Effect of Bismuth Content in Precursor on the Structural and Optical Properties of Bismuth Molybdenum Oxide Film Prepared by Spray Pyrolysis</i>		
Name	Chien-Yu Lai¹ , Yu-Ting Hsu ² , Wen-How Lan ^{1*} , Kai-Feng Huang ² , Shao-Yi Lee ³ , Kuo-Jen Chang ³ , Mu-Chun Wang ^{4*} , Chien-Jung Huang ⁵		
	<i>¹Department of Electrical Engineering, National University of Kaohsiung, Kaohsiung 81148, Taiwan</i>		
	<i>²Department of Electrophysics, National Chiao Tung University, Hsinchu 300, Taiwan</i>		
	<i>³National Chung-Shan Institute of Science & Technology, Taoyuan 32599, Taiwan</i>		
	<i>⁴Department of Electronic Engineering, Minghsin University of Science and Technology, Hsinchu 30401, Taiwan</i>		
	<i>⁵Department of Applied Physics, National University of Kaohsiung, Kaohsiung 81148, Taiwan</i>		
	P20200923672724	Taiwan	Meeting Room
Title	<i>High Efficiency Material Synthesis by Microreactor System</i>		
Name	Chih-Lung Chin* , Mu-Jen Young and Shih-Hsien Liu		
	<i>Material and Chemical Research Laboratories (MCL), Industrial Technology Research Institute (ITRI)</i>		
	P20200924168278	Taiwan/China	Meeting Room
Title	<i>Deep Learning-Based Human Activity Recognition Using Channel State Information</i>		
Name	Chaur-Heh Hsieh¹ , Jen-Yang Chen ² , and Shih-Yu Huang ³		

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¹College of Artificial Intelligence, Yango University, Fuzhou, China

²Department of Electronic Engineering, Ming Chuan University, Taoyuan, Taiwan

³Department of Computer Science and Information Engineering, Ming Chuan University, Taoyuan, Taiwan

P20200925130245

Taiwan

Meeting Room

Title *The Inferences of LiF Additions for the Perovskite Lead-Free Piezoelectric Vibration Sheets*

Name **Mei-Li Chen¹, Kai-Huang Chen², Chien-Min Cheng^{3*}, and Ming-Hao Chang³**

¹Department of Electro-Optical Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan

²Department of Digital Game and Animation Design, Tung-Fang Design University, Kaohsiung, Taiwan

³Department of Electronic Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan

P20200925291666

Taiwan

Meeting Room

Title *Magnetic Properties of Cobalt-Doped Iron Managante Nanoparticles*

Name **En-Szu Lin^{1*}, Ying-Zhen Chen¹, Bing-Yi Chen¹, Ming-Ting Xie¹, Pei-Ying Chuang¹, Chi-Jen Wang¹, Li-Huai Huang¹, Shih-Min Hung¹, Jiann-Shing Lee¹and Chun-Rong Lin¹**

¹Department of Applied Physics, National Pingtung University, Pingtung County 90003, Taiwan

P20200929478133

Taiwan

Meeting Room

Title *The Assist Teaching System Based on Kinect Sensor*

Name **Pu-Sheng Tsai¹, Nien-Tsu Hu^{2*}, Han-Tse Lee³, Ter-Feng Wu⁴, and Jen-Yang Chen²**

¹Department of Electronic Engineering, China University of Science and Technology, Taipei, Taiwan

²Department of Electronic Engineering, Ming Chuan University, Taoyuan, Taiwan

³Master Program for College of Electrical Engineering & Computer Science, National Ilan University, Yilan, Taiwan

⁴Department of Electrical Engineering, National Ilan University, Yilan, Taiwan

PP - 14H

14 : 30 - 15 : 30

P20200925864463

Taiwan

Meeting Room

Title *A Teaching Tool For Joyful Learning of Ai-Based Banknote Detection Technology*

Name **Chun-Cheng Lin, Cheng-Yu Yeh *, Ren-Hao Chen**

Department of Electrical Engineering, National Chin-Yi University of Technology, No. 57, Sec. 2, Zhongshan Rd., Taiping Dist., Taichung 41170, Taiwan.

P20200927100969

Taiwan

Meeting Room

Title *Difficulty Level Classification of Calculus Exam Questions Based on Descriptive Symbol and Text Features of Questions*

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Name	Horng-Horng Lin, Chia-Hong Su, and Shing-Lin Chang*		
	<i>Dept. of Computer Science and Information Engineering, Southern Taiwan University of Science and Technology, Tainan, Taiwan</i>		
	P20200928425332	Taiwan	Meeting Room
Title	Face Recognition System Based on Stereo Vision		
Name	Hsiang-Yueh Lai*, Yu-Ren Chen, Yu-Xun Chen		
	<i>Department of Electrical Engineering, National Chin-Yi University of Technology, No. 57, Sec. 2, Zhongshan Rd., Taiping Dist., Taichung 41170, Taiwan (R.O.C)</i>		
	P20200928946895	Taiwan	Meeting Room
Title	Improved Silicon Surface Passivation By UV-Ozone Treatment		
Name	Wen-Tuan Wu^a, Ting-Hao Zhang^a, Ching-Ming Hsu^a, and Keh-Moh Lin^b		
	<i>^aDepartment of Electro-Optical Engineering, Southern Taiwan University of Science and Technology, 710 Tainan, Taiwan</i>		
	<i>^bDepartment of Mechanical Engineering, Southern Taiwan University of Science and Technology, 710 Tainan, Taiwan</i>		
	P20200929123812	Taiwan	Meeting Room
Title	Study on the Motion Recognition and Imitate in Humanoid Robot		
Name	Nien-Tsu Hu¹, Pu-Sheng Tsai^{2*}, Ter-Feng Wu³, and Jen-Yang Chen¹		
	<i>¹Department of Electronic Engineering, Ming Chuan University, Taoyuan, Taiwan</i>		
	<i>²Department of Electronic Engineering, China University of Science and Technology, Taipei, Taiwan</i>		
	<i>³Department of Electrical Engineering, National Ilan University, Yilan, Taiwan</i>		
	P20200929150002	Taiwan	Meeting Room
Title	Electromechanical Co-design and Experiment of Interconnect in Flexible Hybrid Electronics Fabricated by Panel Level Redistribution Layer Technology		
Name	Frank Yang^{1*}, Shau-Fei Cheng¹, Steve Chiu¹, and Chang-Chun Lee²		
	<i>¹Electronic and Optoelectronic System Research Laboratories Industrial Technology Research Institute, Hsinchu 31057, Taiwan, R. O. C.</i>		
	<i>² Microsystems Mechanical Design & Reliability Analysis Lab Dept. of Power Mechanical Engineering, National Tsing Hua University, Hsinchu 300, Taiwan, R.O.C.</i>		
	P20200929160434	Taiwan	Meeting Room
Title	The Influence of Amionsilane Self-assembly Layer on the Adhesion of Electroless NiP on Silicon Wafer		
Name	Zi Ting Lin¹, Chin Ming Chu¹, Yiu Hsiang Chang², Wen Jin Li^{3*}		
	<i>¹Department of Chemical Engineering, National United University, Miaoli, Taiwan, Republic of China</i>		
	<i>²Department of Chemical Engineering, National Tsing Hua University, Hsinchu, Taiwan, Republic of China</i>		

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³Material and Chemical Research Laboratories, Industrial Technology Research Institute, Chutung, Hsinchu, Taiwan, Republic of China

P20200929443847		Taiwan	Meeting Room
Title	<i>Environmentally Friendly Core-Shell InP/ZnS Nanocrystals Synthesis and Electroluminescence Application</i>		
Name	Po-Jung Hsu*, Chin-Cheng Weng, Chun-Neng Ku, Han-Cheng Yeh <i>Industrial Technology Research Institute</i>		
P20200929509731		Taiwan	Meeting Room
Title	<i>Particular primers design using a machine learning algorithm for polymerase chain reaction</i>		
Name	Li-Yeh Chuang¹, Cheng-Hong Yang^{2,3,*}, and Yu-Da Lin^{2,*} ¹ Department of Chemical Engineering & Institute of Biotechnology and Chemical Engineering, I-Shou University, Kaohsiung, Taiwan ² Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan ³ Ph. D. Program in Biomedical Engineering, Kaohsiung Medical University, Kaohsiung, Taiwan		
P20200929514177		Taiwan	Meeting Room
Title	<i>Electromechanical Co-design and Experiment of Interconnect in Flexible Hybrid Electronics Fabricated by Panel Level Redistribution Layer Technology</i>		
Name	Frank Yang^{1,*}, Shau-Fei Cheng¹, Steve Chiu¹, and Chang-Chun Lee² ¹ Electronic and Optoelectronic System Research Laboratories Industrial Technology Research Institute, Hsinchu 31057, Taiwan, R. O. C. ² Microsystems Mechanical Design & Reliability Analysis Lab Dept. of Power Mechanical Engineering, National Tsing Hua University, Hsinchu 300, Taiwan, R.O.C.		
P20200929678466		Taiwan	Meeting Room
Title	<i>Increase Luminous Efficacy of White LEDs Through Doping TiO₂ Nano-Particle in Encapsulant</i>		
Name	Jin-Quan Huang^{1,2,*}, Pin Syun Li³, Chun-Liang Lin^{2,3} and Yan-Kuin Su^{1,2,3} ¹ Institute of Microelectronics, Department of Electrical Engineering, National Cheng Kung University, Tainan 701, Taiwan ² Green Energy Technology Research Center, Kun-Shan University, No.195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan ³ Department of Electrical Engineering, Kun Shan University, No.195, Kunda Rd., Yongkang Dist., Tainan City 710, Taiwan		
P20200929679921		Taiwan	Meeting Room
Title	<i>360-degree display system based on flat panel display</i>		
Name	Chien-Ju Lee, Kuan-Ting Chen, An-Ting Hu, Pei-Li Sun		

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Industrial Technology Research Institute., Taipei, Hsinchu, Taiwan. Graduate Institute of Color and Illumination Tech., Nat. Taiwan Univ. of Sci. and Tech., Taipei, Taiwan

P20200929791443

Taiwan

Meeting Room

Title *Strain analysis of interconnects on stretchable substrate for flexible hybrid electronics*

Name **Hao-Che Kao, Ting-Yu Ko, I-Hung Chiang, Hung-Hsien Ko, Yu-Lin Hsu, Chang-Ying Chen***

Electronic and Optoelectronic System Research Laboratories Industrial Technology Research Institute, Hsinchu, Taiwan

P20200930120139

Taiwan

Meeting Room

Title *Photocatalytic performance in Carbon-coated ZnO nanowires*

Name **Yen-Yu Chen, Hua-Shu Hsu***

Department of Applied Physics, National Pingtung University, Pingtung 900, Taiwan

P20200930125318

Taiwan

Meeting Room

Title *Low-diffraction and high transmittance design of transparent panel*

Name **Yu-Hsiang Liu, Wei-Lung Tsai, Szu-Wei Wu, Yi-Hsiang Huang and Kung-Ting Chen**

Industrial Technology Research Institute

P20200930135530

Taiwan

Meeting Room

Title *The Study of Digital Addressable Lighting Interface Network Using Multi-Pu's Count Modulation Technology*

Name **Wen Cheng Pu, Cheng Yu Tasi**

Department of Electrical Engineering, National Chin-Yi University of Technology, No.57, Sec 2, Zhongshan Rd, Taiping Dist. Taichung 41170, Taiwan (ROC)

P20200930164181

Taiwan

Meeting Room

Title *Light Induced Degradation for Passivated Emitter and Rear Cell Solar Photovoltaic Modules*

Name **Po-Wen Sze¹, Tzu-Ming Kuo²**

¹Department of Electrical Engineering, Kao Yuan University of Technology, Kaohsiung 82151, Taiwan

²Department of Information Management, National Taipei University of Business, Taipei 10051, Taiwan

P20200930227512

Taiwan

Meeting Room

Title *Discussion on Power Variation of Mono/Polycrystalline Silicon Passive Emitter and Rear Cell Solar (PERC) Photovoltaic Modules Under Long-Term Testing*

Name **Nien-Chi Tsai¹, Po-Wen Sze^{*1}**

¹Department of Electrical Engineering, Kao Yuan University of Technology, Kaohsiung 82151, Taiwan

P20200930270703

Taiwan

Meeting Room

Title *A Novel Indoor Positioning Framework*

Name **Yin-Ting Cheng*, Ming-Chih Chen and Ru-Wei Chen**

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National Kaohsiung University of Science and Technology

P20200930226460

Taiwan

Meeting Room

Title *Research on improving the gold wire damage rate of packaged VFBGA chip*

Name **Ming-Hung Lin***, **Kung-Yi Ta**

Graduate Institute of Cultural and Creative Design, Tung-Fang Design University, Kaohsiung 82941, Taiwan, Department of Industrial Management, I-Shou University, Kaohsiung 84001.

P20200914513725

Taiwan

Meeting Room

Title *Approaches Necessary for Commercialization of Calcium Test*

Name **Ching-Ming Hsu***, **Wen-Tuan Wu**, **Geng-Wei Zhou**

Department of Electro-Optical Engineering, Southern Taiwan University of Science and Technology

PP - 15H

15 : 30 - 16 : 30

P20200930376314

Taiwan

Meeting Room

Title *Artificial Intelligence Based Algorithm for Enhancing the Accuracy of Fall Detection*

Name **Yin-Ting Cheng***, **Ming-Chih Chen** and **Ru-Wei Chen**

National Kaohsiung University of Science and Technology

P20200930466900

Taiwan

Meeting Room

Title *Low-Cost and High Efficiency p-Si/i- β -FeSi₂/n-Si Solar Cell*

Name **Jung-Sheng Huang***, **Kuan-Wei Lee**, **Jun-Cheng Ma**, **Min-Yi Chen**, **Po-Hao Chien**, **Cheng-Jung Hung** and **Yu-Che Lo**

Department of Electronic Engineering, I-Shou University, Kaohsiung 840, Taiwan, ROC

P20200930530484

Taiwan

Meeting Room

Title *Transparent display with bezel-less and high open aperture application*

Name **Wen-Yu Kuo**, **Hung-Chuan Liu**, **Yu-Chang Lin** and **Wei-Chung Chen***

Thin Film Device and Array Department Electronic and Optoelectronic System Research Laboratories (ESOL) Industrial Technology Research Institute, Hsinchu, Taiwan, 31040, R.O.C

P20200930533010

Taiwan

Meeting Room

Title *Integrated Circuit for Touch and Handwriting on Flexible ActiveMatrix Organic Light-Emitting Diode Displays*

Name **Chen-Hui Lee^{a,*}**, **Chien-Yung Cheng^a**, **Chien-Kuo Wang^a**, **Ruo-Lan Chang^b**, **Kuang-Jung Chen^b** and **Chih-Chia Chang^b**

^aFocalTech Systems, Taiwan, 30078, R.O.C.

^bElectronics and Optoelectronics Research Laboratories, Industrial Technology Research Institute, Taiwan, 31040, R.O.C.

P20200930584289

Taiwan

Meeting Room

Title **Effect of buffer layer for the organic solar cell**

The 6th IEEE and 7th The International Conference on Science, Education and Viable Engineering (ICSEVEN 2020)

PESCADORES RESORT Hotel, Mogong, Penghu, Taiwan, Nov. 5-8, 2020.

Name	Dei-Wei Chou^{a,*}, Shih-Feng Wang^b, Wen-How Lan^c, and Chien-Jung Huang^d
	^a Department of Military Meteorology, Air Force Institute of Technology, Kaohsiung, Taiwan ^b Department of Aviation & Communication Electronics, Air Force Institute of Technology, Kaohsiung, Taiwan ^c Department of Electrical Engineering, National University of Kaohsiung, Kaohsiung, Taiwan ^d Department of Applied Physics, National University of Kaohsiung, Kaohsiung, Taiwan
	P20200930673213 Taiwan Meeting Room
Title	Anti-diffraction pixel design of transparent panel
Name	Ying-Ting Liou, Hung-Chuan Liu, Chi-Wen Jung and Wei-Chung Chen*
	Thin Film Device and Array Department Electronic and Optoelectronic System Research Laboratories (ESOL) Industrial Technology Research Institute, Hsinchu, Taiwan, 31040, R.O.C
	P20200930808244 Taiwan Meeting Room
Title	PREPARATION AND MAGNETIC BEHAVIOR OF CARBONENCAPSULATED CUNIFE ALLOY NANOPARTICLES
Name	Chi-Jen Wang^{1*}, Ying-Zhen Chen¹, Bing-Yi Chen¹, En-Szu Lin¹, Yawteng Tseng¹, Pei-Ying Chuang¹, Li-Huai Huang¹, and Chun-Rong Lin¹
	¹ Department of Applied Physics, National Pingtung University, Pingtung County 90003, Taiwan
	P20200930821349 Taiwan Meeting Room
Title	Magnetic Properties of Cobalt-Doped Iron Managante Nanoparticles
Name	En-Szu Lin^{1*}, Ying-Zhen Chen¹, Bing-Yi Chen¹, Ming-Ting Xie¹, Pei-Ying Chuang¹, Chi-Jen Wang¹, Li-Huai Huang¹, and Yaw-teng Tseng¹
	¹ Department of Applied Physics, National Pingtung University, Pingtung County 90003, Taiwan
	P20200930976302 Taiwan Meeting Room
Title	Electromechanical Co-design and Experiment of Interconnect in Flexible Hybrid Electronics Fabricated by Panel Level Redistribution Layer Technology
Name	Frank Yang^{1,*}, Shau-Fei Cheng¹, Steve Chiu¹
	¹ Electronic and Optoelectronic System Research Laboratories Industrial Technology Research Institute, Hsinchu 31057, Taiwan, R. O. C.
	P20201004147739 Taiwan Meeting Room
Title	Examining the Effect of Fit between Market Orientation and Internet of Things (IoT) adoption Strategy on EMarketing Orientation
Name	Yue-Yang Chen^{1*}
	¹ Department of Business Administration, I-Shou University
	P20201005646244 China Meeting Room

The 6th IEEE and 7th The International Conference on Science, Education and Viable Engineering (ICSEVEN 2020)

PESCADORES RESORT Hotel, Mogong, Penghu, Taiwan, Nov. 5-8, 2020.

Title	<i>Project design and implementation of face recognition, fever detection and attendance record based on Web Technology</i>		
Name	MINCHUAN HUANG ¹ ,HSIANGLIN HUANG ² ,IPING CHEN ³ , AIGUO WANG ^{4*} <i>Guangdong Institute of petroleum and chemical engineering</i>		
	P20201005994615	Taiwan	Meeting Room
Title	<i>Magnetic Behavior of Surfactant-Assisted Synthesis Chromium-Doped Hematite Nanorods</i>		
Name	Ying-Zhen Chen ¹ , Aleksandr Spivakov ¹ , En-Szu Lin ¹ , Bing-Yi Chen ¹ , ShihMin Hung ¹ , Jiann-Shing Lee ¹ and Chun-Rong Lin ¹ ¹ Department of Applied Physics, National Pingtung University, Pingtung County 90003, Taiwan		
	P20201006729737	Taiwan	Meeting Room
Title	<i>Synthesis And Magnetic Characteriation of Samarium-Orthoferrite Nanoparticles</i>		
Name	Ming-Ting Xie ^{1*} , Ying-Zhen Chen ¹ , Bing-Yi Chen ¹ , En-Szu Lin ¹ , Pei-Ying Chuang ¹ , Chi-Jen Wang ¹ , Li-Huai Huang ¹ , and Chun-Rong Lin ¹ ¹ Department of Applied Physics, National Pingtung University, Pingtung County 90003, Taiwan		
	P20201007164112	Taiwan	Meeting Room
Title	<i>Effect of top electrode material on the memory properties of apple pectin thin film</i>		
Name	Jia-Cheng Jian ¹ , Yu-Chi Chang ^{2*} , Ya-Lan Hsu ² , Zhao-Cheng Chen ² , HaoJung Liu ² , Shoou-Jinn Chang ¹ and Sheng-Joue Young ¹ National Cheng Kung University Institute of Microelectronics ² National Cheng Kung University Department of Engineering Science		
	P20201007496784	Taiwan	Meeting Room
Title	<i>Resistive memory device based on solution processed citrus biomaterial</i>		
Name	Ting-Yun Wang, Yu-Chi Chang*, Hong-Bin Chen, Ya-Lan Hsu, Jia-Cheng Jian, Zhao-Cheng Chen, Hao-Jung Liu, and Wei-Yun Huang <i>National Cheng Kung University Department of Engineering Science</i>		
	P20201008124633	Taiwan	Meeting Room
Title	<i>Portable smart pill box system with medicine cloud managemen</i>		
Name	Yu-Liang Siao and Wen-Ray Chen* <i>Department of Electronic Engineering, National Formosa University, Yunlin 632, Taiwan</i>		
	P20201008319460	Taiwan	Meeting Room
Title	<i>Improvement of the wire bonding strength of the PLCC LED</i>		
Name	Liang-Hua Lee ¹ , Wen-Ray Chen ^{2*} , and Jen-Yu Shieh ¹ ¹ Department of Electro-Optical Engineering & Graduate Institute of Electro-Optical and Materials Science, National Formosa University, Yunlin 632, Taiwan.		

²Department of Electronic Engineering, National Formosa University, Yunlin 632, Taiwan

P20201008422911

Taiwan

Meeting Room

Title *Smart Security Briefcase System*

Name **Che-Chia Chang and Wen-Ray Chen***

Department of Electronic Engineering, National Formosa University, Yunlin 632, Taiwan.

P20201012162927

Taiwan

Meeting Room

Title *The Investigation on Accuracy of Body Temperature Screening Using Thermal Camera Based on Microbolometer Devices for COVID-19 Pandemic*

Name **Shiang-Feng Tang¹, Shun-Lung Yen², Kuo-Jen Chang¹, Kun-Chi Lo¹ and Cheng-Han Wu¹**

¹Materials and Electro-Optics Division, National Chung-Shan Institute of Science and Technology (NCSIST),

²Department of Electrical and Electronic Engineering, Chung-Cheng Institute of Technology, National Defense University,

P20200925839594

Taiwan

Meeting Room

Title *Activation Energy and Conduction Mechanism Characterization of HfZrO₂ High-k Dielectrics by Atomic Layer Deposition for Metal Gate MIS Applications*

Name **C.F. Chen¹, C. H. Liu¹, P. C. Juan²**

¹Dept. of Mechatronic Technology, National Taiwan Normal University (NTNU), Taiwan, ROC

²Dept. of Materials Engineering, Ming Chi University of Technology, Taiwan, ROC

P20200930353484

Taiwan

Meeting Room

Title *Effect of Passivation Layers by Liquid Phase Deposition (LPD) on Ambient Protection for Flexible Organic Light-Emitting Diode (FOLED)*

Name **Na-Fu Wang^{a,*}, Po-Wen Sze^b, and Chien-Jung Huang^{c,*}**

^aDepartment of Electronics Engineering, Cheng Shiu University, Kaohsiung, Taiwan

^bDepartment of Electrical Engineering, Kao Yuan University, Kaohsiung, Taiwan

^cDepartment of Applied Physics, National University of Kaohsiung, Kaohsiung, Taiwan

P20200929560235

Taiwan/India

Meeting Room

Title *Investigation of HfSiOX passivation effects on Dual Surface Modified AlGaIn/AlN/GaN MOS-HEMT Using HCL and UV-O₃ Plasma Treatment*

Name **Soumen Mazumder, Ssu-Hsien Li, Yin-Yu Hsueh and Yeong-Her Wang***

Institute of Microelectronics, Department of Electrical Engineering, National Cheng-Kung University, Tainan, Taiwan

P20201012477520

Taiwan

Meeting Room

Title *Effect of top electrode material on the memory properties of apple pectin thin film*

Name **Jia-Cheng Jian¹, Yu-Chi Chang^{2*}, Ya-Lan Hsu², Zhao-Cheng Chen², HaoJung Liu², Shoou-Jinn Chang¹ and Sheng-Joue Young**

The 6th IEEE and 7th The International Conference on Science, Education and Viable Engineering (ICSEVEN 2020)
 PESCADORES RESORT Hotel, Mogong, Penghu, Taiwan, Nov. 5-8, 2020.

¹National Cheng Kung University Institute of Microelectronics

²National Cheng Kung University Department of Engineering Science

Nov. 7 (Sat.)		
Short Courses		Meeting Room
09 : 00 - 12 : 00	Course Organizer	Prof. Juin J. Liou
I		
12 : 00 - 14 : 00 Free Activity Time		
Short Courses		Meeting Room
14 : 00 - 17 : 00	Course Organizer	Prof. Chien-Jung Huang
II		
Nov. 8 (Sun.)		
09 : 00 - 12 : 00		
Lobby	Interactive Forum	Lobby
12 : 00 - 14 : 00		
Farewell		

