

An Open Access Journal

Editor-in-Chief

Prof. Shoou-Jinn Chang Prof. Chien-Hung Liu

Message from the Editor-in-Chief

The unique journal *Inventions* is different from all other journals. Many scholars spend their lives publishing research papers in many different journals, but most of these journals do not help scholars collate and analyze their results or assist in promoting them to a relevant industry. However, *Inventions* will help authors not only to publish their papers in the journal, but also to promote their research results to industry and assist them in realizing the purpose of technology transfer. In the future, *Inventions* will help authors to evaluate their technology license fees based on the valuation theory and approaches and also help authors to show their patents and technologies on a network transaction platform.

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More Information about This Journal

Aims and Scope

Inventions is an international, peer-reviewed journal that publishes original scientific research of significance concerning innovation/invention, or patent-based/extended/reviewed research papers in all fields of science, engineering and product development processes. We encourage authors to give special attention to patent-based/extended researches and short technical reports regarding transferring technology.

The scope of Inventions includes:

Patent-based/extended/reviewed inventions in engineering

Innovation/inventions in systems

Innovation/inventions in devices

Innovation/inventions in methods

Innovation/inventions in composition

Innovation/inventions in processes

Innovation/inventions in products

Innovation/inventions in design

Innovation/inventions in advanced technologies

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Special Issue

Innovation and Inventions of Electro-Optical Materials and Devices and their Application

Guest Editors:

Prof. Dr.

Shoou-Jinn Chang

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Prof. Dr. Chien-Hung Liu

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Deadline for manuscript submissions: **30 June 2016**

Message from the Guest Editors

Dear Colleagues,

The development of electro-optical and photovoltaic technology and its influence on the economics of such installations over the next few years is likely to establish which of the energy technologies will dominate for decades to come. The opportunity to share and discuss these crucial developments in a timely and influential forum is important. We invite investigators to contribute original research articles, as well as patent-based reviews, to this Special Issue. Potential topics include

Innovation and inventions of electro-optical materials
Innovation and inventions of electro-optical devices

Advanced materials for electro-optical and photovoltaic device application.

Advanced materials with new optical and photoelectric properties.

Nanoparticles, nanowires, or nanosheets for electro-optical devices

Device structures and processing techniques.

Sensing device

Prof. Dr. Shoou-Jinn Chang Prof. Dr. Chien-Hung Liu Guest Editors

| Special Issue website: mdpi.com/si/5477







More Information about This Journal

Aims and Scope

Applied Sciences (ISSN 2076-3417) is an international, peerreviewed, open access journal, published quarterly by MDPI AG, Basel, Switzerland.

Applied Sciences provides an advanced forum on all aspects of applied natural sciences, including applied physics, applied chemistry, applied biology and applied engineering. It publishes reviews, research papers and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers as the full experimental details need to be provided so that the results can be reproduced.

The journal is covered by leading indexing services, including the Science Citation Index Expanded (*Applied Sciences-Basel* recorded in Web of Science) and Chemical Abstracts.

| Website: http://www.mdpi.com/journal/applsci



www.mdpi.com





An Open Access Journal

Editor-in-Chief

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Prof. Dr. Takayoshi Kobayashi

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant, fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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An Open Access Journal

Editor-in-Chief

Prof. Dr. Thomas Nann

Message from the Editor-in-Chief

Many materials with size features in the lower nanometre size range are characterised by new, mesoscopic properties (actually the definition of nanomaterials). Synthesizing and studying these nanomaterials leads to exciting discoveries, and sometimes new applications. The vision of *Nanomaterials* is to publish the best findings on all aspects of nanomaterial science to the broadest possible audience. We are dedicated to quality and fairness and it is my pleasure to see the continuing success and increasing impact of the journal.

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Special Issue

Nanomaterials for Flexible and Stretchable Devices: Synthesis, Processes, and Applications

Guest Editors:

Prof. Dr. Chien-Hung Liu Department of Mechanical Engineering, National Chung Hsing University, Taiwan

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Deadline for manuscript submissions:

31 May 2016

Message from the Guest Editors

Dear Colleagues,

Nanomaterials have played a significant role in the improvement of flexible/stretchable electronics for display, sensors, energy storage, conversion, and harvesting devices. We invite authors to contribute original research and review articles covering current progress on the nanomaterials for flexible and stretchable devices.

The current Special Issue will take account of topics include, but are not limited to:

Synthesis and characterization of nanomaterials

Design and preparation of novel nanostructured surfaces

Flexible/stretchable percolation network composed of low-dimensional nanomaterials

Lithography-free techniques for nanomaterial processing

Nanomaterial-based printing techniques

Nanomaterial-based flexible/stretchable electronics

Other applications related to nanomaterials for devices

Post-processing to enhance mechanical stability of flexible/ stretchable devices

Guest Editors

| Special Issue website: mdpi.com/si/5443



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■ 負責人 郭添源 博士

■ 成立時間 2003年

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Agenda

Date	Time	Event
27 th November	15:00-18:30	Registration (Hotel Check-in Assistance) (Sun Moon Lake Teacher's Hostel 1F-Conference Center)
(Fri.)	18:30-	Welcome reception (Sun Moon Lake Teacher's Hostel B1-Taoliyuan Restaurant)

Date	Time	3F Room A (Assembly Hall)	2F Room B	1F Room C (1st Meeting Room)	1F Room D (2 nd Meeting Room)	1F Poster Room (Recreation Center)				
-	8:30-9:40		Registration (Sun Moon Lake Teacher's Hostel 1F-Conference Center)							
	10:00-10:30	Openii	ng Ceremony (Sun M	oon Lake Teacher's I	Hostel 3F-Assembly H	all)				
	10:30-10:40	Introduction to N	Introduction to New Journals Inventions (Sun Moon Lake Teacher's Hostel 3F-Assembly Hall) Introducer: Prof. Shoou-Jinn Chang							
	10:40-10:50	Introduction		Sun Moon Lake Teac cer: Prof. Chien-Hun	cher's Hostel 3F-Asser g Liu	nbly Hall)				
	10:50-11:25		Keynote Speech I, (Sun Moon Lake Teacher's Hostel 3F-Assembly Hall) Title: Qcount: Intangible Asset Valuation System for Evaluating Technology License Fees Chair: Prof. Chien-Hung Liu Speaker: Dr. Tien-Yuan Kuo							
	11:25-12:10		ative Analysis in Co Chair			CONTRACTOR OF THE PROPERTY OF				
28 th November	12:10-13:20		Lunch Break (Th	ne Lalu B1-The Orien	tal Brasseries)					
(Sat.)	(Sat.) 13:30-16:00 Session A1 Session B1 SPINTECH -Thesis Award					SPINTECH -Thesis Award				
	16:00-16:15	Coffee Break (Sun Moon Lake Teacher's Hostel 1F-Recreation Center)								
	16:15-17:00	Keynote Speech III, (Sun Moon Lake Teacher's Hostel 3F-Assembly Hall) Title: Modeling, Control, and Scientific Computation for Complicated Engineering Problems Chair: Prof. Chih-Jer Lin Speaker: Prof. Yun-Hua Li								
	17:00-17:45	Keynote Speech IV, (Sun Moon Lake Teacher's Hostel 3F-Assembly Hall) Title: Laser-based material processing and electronics fabrication Chair: Prof. Ming-Tsang Lee Speaker: Prof. Daeho Lee								
	17:45-17:55	SPINTECH Tec	hnology -Thesis Awa	rd (Sun Moon Lake T	eacher's Hostel 3F-As	sembly Hall)				
1	17:55-18:10	Gr	oup Photo (Sun Moon	Lake Teacher's Hos	tel 3F-Assembly Hall)					
	18:30~20:30		Banquet	(The Lalu 1F-Lalu G	arden)					
	09:30-12:00		Session B1	Session C1	Session D1	Poster 1 (10:00-10:40) Poster 2 (10:40-11:20) Poster 3 (11:20-12:00)				
29 th November	12:10-13:20		Lunch Break (Th	ne Lalu B1-The Orien	tal Brasseries)					
(Sun.)	13:30-15:30		Session B2	Session C2	Session D2					
	15:30-15:45									
	15:45-17:45									

		Social Event
		Gathering venue (before 9:00): Sun Moon Lake Teacher's Hostel 1F Lobby
30 th November	09:00-11:00	 Lake Tour by Boat (Gratis), each of stops are Shuishe Pier, Xuangguang Pier and Ita Thao Pier. In Shuishe, it is the location of a famous scenic commerce street. Hanbi Hiking Trail and Meihe Garden are nearby. Also you can find the bike rental shop, have a bike tour to Xiangshan Recreation Plaza. Xuangguang Pier, there are lots of temples around. Such as Xuangguang temple, Syuentzang Temple and Ci En Pagoda. Each of them has their own unique differences and scene views. Ita Thao Pier is the most special one. Once known as Dehua Village, this is the main Thao settlement. Traditional Thao performances and cultural exhibitions are offered here by Thao aborigines, as well as a shopping area full of Thao atmosphere.
(Mon.)		Gathering venue (before 11:30): Sun Moon Lake Teacher's Hostel 1F Lobby
	12:00-13:30	Lunch at Jindu Restaurant.
	14:00-17:00	The conference arranges the visiting of Chung Tai Chan Monastery to feel the atmosphere of oriental temple with professional English tour by the monk who lives there.
	17:00-18:00	THSR Taichung Station/National Chung Hsing University

Forewords



On behalf of the organizing committees, all program chairmen would like to welcome all of you to Nantou, Taiwan for 2015 International Conference on Computing and Precision Engineering & 2015 International Conference on Inventions collocated with 2015 SPINTECH Technology Thesis Awards. The conference is organized by TAIWAN SOCIETY of INTELLEGENT INSTRUMENT INVENTIONS, SPINTECH PRECISION MACHINERY CO. LTD., NATIONAL CHIN-YI UNIVERSITY of TECHNOLOGY, NATIONAL CHUNG HSING UNIVERSITY, CHIENKUO TECHNOLOGY UNIVERSITY and NATIONAL KAOHSIUNG UNIVERSITY of APPLIED SCIENCES and also sponsored by Multidisciplinary Digital Publishing Institute (MDPI). We

would like to express our sincere appreciation for their supports for the conferences. I would also like to promote a new journal Inventions (ISSN 2411-5134) and broadcast the journal Applied Sciences (ISSN 2076-3417) in this conference and invite you to submit high quality papers to these journals in MDPI.

The aims and scope of the conferences and thesis awards on computing and Inventions is to make researchers focus on patent based and computing researches. An invention is a solution to a specific technological problem and is an improvement upon a machine or product, or a new process for creating an object or a result, which also could achieve a completely unique function or a radical breakthrough. However there is a very thin line between brilliant innovation and absolute failure, as some of these inventors famously found out or even face with the problems of insufficient funds. Therefore patent based researches are a form that offering a way to apprehend the ideas and advance on the projects immediately, rapidly by the successful and practical results of predecessors. We expect the conferences to be a platform for successful patent inventors to share their experiences in inventing with all participants. At the same time, the conferences also aim to gather and show high quality papers concerning the discovery of completely unique functions or results while even go further to advance the frontiers of science and extends the standards of excellence established by the conferences and "Inventions" to readers. With many discussions based on patent, these conferences and "Inventions" would inspire more in all levels.

The conference has received 245 submitted papers from 15 countries, whereby 145 papers have been selected by the committees to be included within the proceeding. These papers on various topics are divided into ten oral sessions and three poster sessions and presented in several parallel sessions in the conference. To all members of the Technical and Organizing Committees and reviewers, we would like to take this opportunity to thank all of them for their tremendous efforts to organize this conference and awards successfully.

At last, I would like to thank all of you for your participation. The program committee not only organizes keynote speeches, invited speeches and technical sessions, but also a special banquet to give the warm welcome to our guests. We look forward to having a successful conference, and we hope that all the attendees will have an enjoyable stay in Taiwan.

Chien-Hung Liu

Program Chairman of ICCPE2015 & ICI2015

Forewords



First of all, I should like to express my sincere thanks to all of you for participating in this International Conference on Computing and Precision Engineering (ICCPE) collocated with SPINTECH Technology Thesis Awards, the venue for which is Sun Moon Lake, Nantou, Taiwan.

ICCPE continues a tradition of bringing together researchers, academics and professionals from all over the world, experts in computing and engineering sciences.

The conference particularly encouraged the interaction of research students and developing academics with the more established academic community to present and to discuss new and current work. Their contributions helped to make the Conference as outstanding as it has been. The papers contributed the most recent scientific knowledge known in the field of Engineering and Nanotechnology, Biotechnology, Material, Energy, Control System, Information and Communication, Computing Technology, and Key Industrial Technologies.

In addition to the contributed papers, four invited keynote presentations were given: by Prof. Oronzio Manca of the Second University of Naples of Italy, who spoke about comparative analysis in convective heat transfer enhancement by nanofluids, by Dr. Yunhua Li of the Beijing University of Aeronautics and Astronautics of China, who spoke about modeling, control, and scientific computation for complicated engineering problems, by Prof. Daeho Lee of Gachon University of Korea, who spoke about laser-based material processing and electronics fabrication and by Dr. Tien-Yuan Kuo of the President of Chengda Intellectual Property Tech. Ltd. Co. who spoke about systematization of technology valuation.

These Proceedings will furnish the scientists of the world with an excellent reference book. I trust also that this will be an impetus to stimulate further study and research in all these areas.

We thank all authors and participants for their contributions.

Cheng-Chi Wang

Program Chairman of ICCPE2015 & ICI2015

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- David T.W. Lin, National University of Tainan, Taiwan

ICCPE&ICI 2015 Keynote Speeches – I

28th November (Saturday) Keynote Speeches

"Comparative Analysis in Convective Heat Transfer Enhancement by Nanofluids"



Prof. Oronzio Manca

Department of Aerospace Engineering and Mechanical Engineering
The Second University of Naples, Italy

Heat transfer enhancement determines the need for new and innovative coolants with improved performance. The novel concept

of "nanofluids" has been proposed as a route to surpassing the performance of heat transfer fluids currently available. Several investigations have revealed that the thermal conductivity of the fluid containing nanoparticles could be increased by more than 20% for the case of very low nanoparticle concentrations.

All literature is focused on the theoretical, experimental and numerical study of thermophysical properties and convection of nanofluids, but the modern design concept for a thermal system, pursues not only the enhancement of heat transfer performance, but also requests the minimal power requirements. However, what constitutes enhancement in convective heat transfer in nanofluids is subject to interpretation. According to the established correlations for turbulent and laminar convective heat transfer, the heat transfer coefficient depends on the thermophysical properties and flow parameters. The question of anomalous enhancement is important, because a significant deviation among the data would signal the presence of some nanoparticle-specific heat transfer mechanisms that make nanofluids behave in a fundamentally different way from homogenous fluids.

In any case, enhancement of the heat transfer performance, usually, must be achieved at the expense of power input and this is also the case of nanofluids. In fact, in the study of nanofluid convection, there is the recurrent question of where is the position of the trade-off between the increase in heat transfer and pressure loss. When working with nanofluids, it is of great importance to determine the optimal concentration to use and most convenient particles dimension to utilize. It therefore seems clear that further research is required in order to fully understand the behavior of nanofluids as well as to quantify the extent of their potential use in engineering applications. The optimal trade-off between heat transfer and power input requirement becomes a major issue in the design of a thermal system.

Different performance criteria are usually employed in the evaluation in the comparison between thermal and mechanical performances of nanofluids by a first and a second

ICCPE2015 & ICI2015

thermodynamics law analysis. Generally, to characterize the energetic or thermal performance of a fluid flowing in a specific device can be employed the performance evaluation criterion (PEC) based on an energetic global approach. PEC allows to compare heat transfer rate to pumping power. Another criterion can be given by the ratio between the Nusselt number (Nu) and the Euler number (Eu) which represents a measure of pressure loss due to pumping effort to achieve that heat transfer. However, a modern approach for the optimization of a thermal system is based on the second law of thermodynamics. Entropy generation analysis offers a rigorous physical framework to solve the above mentioned problems. Particularly, the entropy generation is used as the parameter for evaluating the efficiency of the system. The system with minimum entropy generation is considered as the optimal design. Study on entropy generation and minimization is essential since viscosity of nanofluids increases with nanoparticles volume fraction.

In the presentation will be compared results carried out with the different approaches with reference to laminar and turbulent convective heat transfer in ducts and impinging jets.

Experience:

Member of - American Society of of Mechanical Engineering ASME

- Unione Italiana di Termofluidodinamica UIT
- American Nano Society ANS
- Associazione Tecnica dell'Automobile ATA

Associate Editor for

- Journal of Heat Transfer
- Journal of Porous Media

Member of the Editorial Advisory Boards for

- Advances in Mechanical Engineering
- Journal of Engineering
- The Open Thermodynamics Journal
- The Open Fuels & Energy Science Journal
- Nano Energy and Nano Environment

Main research activities:

Heat Transfer, Thermal Sciences and Applied Thermodynamics. In detail:

- Active solar systems;
- Passive solar systems;
- High temperature solar systems;
- · Refrigerant fluids;
- Conduction in solids irradiated by moving heat sources, analytical and numerical solutions in material processing;
- Combined radiative and conductive fields in multilayer thin films;
- Natural and mixed convection in material processing, thermal control of electronic equipment and solar systems;
- Convection in porous media and microchannels;
- Heat transfer in nanofluids.

ICCPE&ICI 2015 Keynote Speeches - II

28th November (Saturday) Keynote Speeches

"Modeling, Control, and Scientific Computation for Complicated Engineering Problems"



Dr. Yunhua Li Professor of Mechatronics and Hydraulic Control Division 303 (Department of Mechatronics) School Automation Science and Electric Engineering Beijing University of Aeronautics and Astronautics

The progress and development in computing science and computer technology provides a new way for the solution of complicated engineering problems. This talk will deals with using modeling, control,

and scientific computing to give the solution for the complicated problem.

Firstly, the relative fundamental theory and algorithm, infrastructure, and solution steps to solve the complicated problem by using modeling and scientific computing method will be discussed.

Secondly, combining five typical engineering practical examples, the problem formulation and the solving procedure will be given and exhibited. The proposed solution methodology includes the distributed computing and control in the networked configuration, modeling and simulation for complicated physic-coupling system such as thermal tunnel and space-station life-supporting system, multi-objective optimization for power distribution system. The five application examples are as follows:

- Software steering trapezium and networked control for large scale of transporting vehicle with multi-axle driving and multi-mode steering used in the high speed railway construction;
- · Modeling and computer control of fuel oil and temperature control of thermal tunnel;
- Fault identification of power supply system of high speed railway using nonlinear dynamics method:
- Modeling and collaborative simulation of the environment control and life support system of the space station in China;
- Advanced optimization algorithm for intelligent power distributing and delivery system with the distributed electric supplies such as wind-power generator and solar-energy photovoltaic cell array.

Thirdly, the practical application effects of five practical examples are provided and the application experiences will be given for sharing.

Finally, the methodology and realization steps to solve the complicated engineering problem by using software computing will be summarized.

This talk will also offer an opportunity for the software computing solution to complicated problem exchange among delegates and participants from theory to engineering practice. Attendees will find

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new thoughts to solve the complicated problem.

Experience:

- Executive committee member of Fluid Power Transmission and Control of CMES, since 2000
- Committee member of Fluid Control Engineering of CMS, since 2005
- Secretary-general of Academic Committee of Sch. Auto. and Electric Eng. of Beihang University, since 2005
- Technical Editorof IEEE/ASME Transactions on Mechatronics
- AE of International Journal of Aeronautics and Astronautics(Published in USA), since 2009
- AE of International of Journal of Control Theory and Applications(Published in India), since 2008
- Editor in Chief of Hydraulics, Pneumatics and Seals, since 2007

Main research activities:

Hydraulic and mechatronic control of the field robot. In detail:

- Mechatronics
- Hydraulic power transmission and control
- Mechatronic system nonlinear dynamics and control
- Networked control
- Electro-magnetic and electro-hydraulic actuators
- Mobile robot construction machinery

ICCPE&ICI 2015 Keynote Speeches - III

28th November (Saturday) Keynote Speeches

"Laser-based Material Processing and Electronics Fabrication"

Prof. Daeho Lee Assistant Professor, Mechanical Engineering, Gachon University, Korea

Lasers are effective and capable material-processing tools that offer distinct features and advantages, including choice of wavelength, pulse width and frequency to match the target material properties as well as one-step direct and locally confined structural modification. Moreover, since lasers are controllable with digitized parameters and can be integrated with a CAD (computer-aided design) system they allow a high degree of freedom when the design needs to be changed.

As current technology is pushed to ever smaller dimensions, lasers become a truly enabling solution, reducing thermomechanical damage and facilitating heterogeneous integration of components into functional devices. Laser process can be applied on heat-sensitive flexible substrates since laser provides high peak processing temperature while minimizing thermal damage on the substrate due to localized and rapid heating in conjunction with extremely fast cooling rate. For this reason, lasers are actively used to develop flexible, stretchable and wearable devices nowadays.

In this talk, recent research activities will be presented focused on the laser-assisted material processing and electronics fabrication which will cover, but not limited to, 1) non-vacuum, non-lithographic electrode fabrication by laser direct writing of metal and metal oxide nanoparticle ink, 2) laser-assisted transfer of nanomaterials, 3) laser-assisted nanoimprinting over a large area, 4) localized nanomaterial synthesis and deposition.

Second part of this talk will focus on the laser-assisted one-step patterning of various nanomaterials on flexible substrates and its application to transparent conductors.

In this talk, recent research activities will be presented, focused on the laser-assisted manufacturing and diagnostics technologies for solar applications.

Laser has various characteristics depending on its parameters such as wavelength, pulse duration and frequency, and thus has a diverse range of applications.

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Laser-assisted localized growth of semiconducting nanostructures is reported. As is the case of conventional crystal growth, localized laser enables three kinds of crystal growth: (1) melt growth (recrystallization) of amorphous silicon nanopillars by pulsed laser; (2) vapor growth (chemical vapor deposition) of germanium nanowires; (3) solution growth (hydrothermal growth) of zinc oxide nanowires. The results not only demonstrate programmable and digital fabrication of laser-assisted crystal growth, but also reveal unusual growth chacracteristics (grain morphologies, growth kinetics). Related to solar applications, it is suggested that these structures can act as epitaxial seeds for growth of coarse grains and as multi-spectral centers for enhanced and engineered light absorption.

Experience:

- 03/2014-present Gachon University (Seongnam, Korea), Assistant Professor,
 Depatment of Mechanical Engineering
- 10/2012-02/2014 Laser Thermal Lab at UC Berkeley (Berkeley, USA), Postdoctoral Research Associate
- 05/2013-02/2014 Lawrence Livermore National Lab (Livermore, USA), Visiting Scientist
- 03/2009-02/2014 Lawrence Berkeley National Lab (Berkeley, USA), Guest researcher
- 08/2008-09/2012 Laser Thermal Lab at UC Berkeley (Berkeley, USA), Research Assistant
- 01/2007-07/2007 Hyundai Engineering & Construction Co., Ltd. (Seoul, Korea),
 Staff Engineer, Division of Overseas Plant
- 03/2005-12/2006 Integrated Energy & Environment Lab at Seoul National University (Seoul, Korea), Research Assistant
- 03/2002-02/2005 Handol Pumps Ltd. (Industrial process pumps manufacturing company) (Incheon, Korea), Engineer, Division of Manufacturing & Design

Main research activities:

In detail:

- Development and application of the laser processing for nanomaterials
- Laser assisted printing techniques for the fabrication of functional nanostructures
- Laser assisted chemical vapor deposition (LACVD) of semiconducting materials
- Transparent conductors
- Sustainable Energy Device (dye sensitized solar cells, organic solar cells)
- Water splitting for hydrogen production
- Flexible Electronics, Wearable Electronics
- Laser processing for clean and high-efficiency energy technology
- Nanomaterial synthesis and characterization

ICCPE&ICI 2015 Keynote Speeches - IV

28th November (Saturday) Keynote Speeches

" Qcount: Intangible Asset Valuation System for Evaluating Technology License Fees"



Dr. Tien-Yuan Kuo 成大智財科技股份有限公司 董事長

專利技術作為一種無形商品,其市場價值難以判斷,價值評估 往往成為交易雙方爭執不下的問題,大大延緩了技術交易的效率。 成大智財首創專利技術評價流程系統化,採用科學合理的評估原理

、建立產業參數資料庫,以系統軟體的方式固化評估模型,透過雲端服務,提供操作簡單、計算快速、花費低廉、專業且具體有效的系統化評估工具,大幅降低評估費用。透過系統化評估工具,無論是技術供應方或需求方,只需要通過幾個簡單的步驟填入相關要素,立即就可以獲得相應的參考交易價值及評估報告,為企業、專家提供技術價值的參考體系,解決技術交易過程中技術成果價值難以判斷的困境。

Considering technology as intangible goods, its market value is generally hard to be evaluated. In the process of technology transfer, value always becomes a point of conflict between buyer and seller.

Chengda Intellectual Property Tech. Co. first systematized technology valuation process, using scientific and reasonable valuation methods, building up industrial database, fixing valuation model into software. At present, fast, inexpensive and easy-to-use valuation tool is available in the Clouds.

Through systematized valuation tool, after entering several related parameters in a few simple steps, both vendor and purchaser can immediately get corresponding reference value and valuation report. By providing enterprises and individuals reference architecture of technology value, the tool is able to solve the problem of value judging in technology transfer process.

Experience:

- 金屬工業研究發展中心 主任
- 新泰伸銅工業股份有限公司 重整監督人
- 名佳利工業股份有限公司 整廠規劃
- 山仁工業股份有限公司 重整監督人

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- 耀登科技股份有限公司 董事
- 星陶科技股份有限公司 董事
- 東又悅企業股份有限公司 董事
- Chengda Intellectual Property Tech. Ltd.Co., President, since 1993.
- Certified Valuation Analyst of IACVA(The International Association of Consultants, Valuators and Analysts), since 2012.
- Bridging Project of Taiwan e-Learning and Digital Archives Program, IP licensing and valuating consultant, since 2009.
- Metal Industries Research & Development Centre, Director, 1982-1994.

專長/Specialty:

In detail:

- CVA 企業暨無形資產認證評價師
- 重大投資案規劃
- 智財加值整合服務:
 - 創新策略:創新研發加值、投資融資計畫
 - 智財流通:企業智財評價、智財授權交易、評價系統化
- Valuation systematization
- Technology valuation

Guidelines

1. Official Language

The official language of ICCPE2015&ICI2015 is English. All presentations including Q&A will be delivered in English.

2. Guideline for Participants

2.1.Conference Venue

Sun Moon Lake Teachers' Hostel (http://www.t-welfare.com.tw/edumoon/)

2.2.Registration

Time of Registration: 15:00PM ~ 18:30PM, Friday, Nov. 27th, 2015 (1F- Conference Center)

2.3. Internet Service and International Telephone

Computers with Internet Service at Conference Center are provided by Sun Moon Lake Teachers' Hostel. Wireless is also free to use around the hotel.

2.4.Conference Kit

Conference kit, which contains final program, name badge, tickets for lunches, banquet and official receipt, will be provided to participants during check-in at the Registration/Information Desk on Friday, Nov. 27th

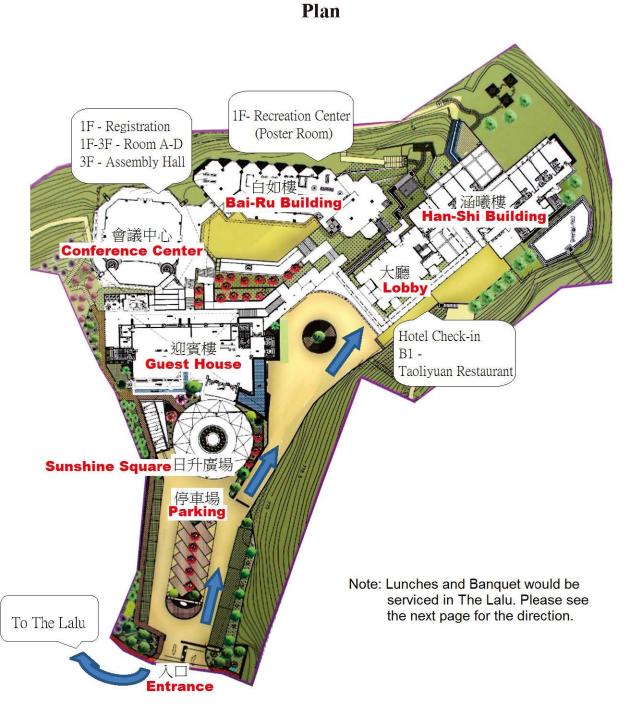
3. Guideline for Presenters

- [1] The presenters and session chairs are asked to keep to the paper sequence as shown in the Final Program. By following this predefined schedule, participants can switch between sessions without missing the particular papers of interest.
- [2] The presentation time for each presenter is 15 minutes including Q&A. The session chairs should allow the presenter for a 12-minute presentation and leave 3 minutes for discussions. All presenters are requested to report their attendance to the session chair 10 minutes before the session begins. If there are only 4-5 presenters in a session, then the session chair should allow the presenter for a 15-minute presentation and leave 3 minutes for discussions.
- [3] Notebook PCs and LCD projectors will be available in every session room. Presenters are encouraged to prepare their files in MS PowerPoint format on a USB and copy into the PC at session room before the session begins. Our session aids will assist the presenters to copy the file. If you wish to use your own notebook PC, please open the file before your presentation.
- [4] For unexpected events that cannot be handled on the spot, you may request through session chairs, session aids or make a direct notification to the Conference Secretary Desk.

4. Guideline for Posters

Standard Poster Size: 50 cm (width) X 90 cm (length)

Sun Moon Lake Teacher's Hostel - Symposium Floor



The Lalu - Symposium Floor Plan





Transportation & Direction

Arrive at Sungshan International Airport

Route 1 TRTC→ Kuo-Kuang Motor Transport

- 1. Please transfer to Taipei Main Station by taking Taipei Mass Rapid Transit (MRT).
- 2. Go to <u>Taipei West Bus Station Terminal B</u> to take <u>Kuo-Kuang Motor Transport</u> No.1833.
 - ✓ Kuo-Kuang Bus Single Ticket: NT\$ 460

Route 2 MRT→THSR→Nantou Bus or Sun Moon Lake Route Taiwan Tourist Shuttle Bus

- **A.** Taking THSR from <u>Taipei Station</u> to <u>Taichung Station</u>, and transfer to <u>Nantou</u> Bus No. 6670.
 - ✓ Nantou Bus Single Ticket: NT\$ 190
- **B.** The Taiwan Tourist Shuttle service: Sun Moon Lake Route
 - 1. From THSR Taichung Station hall No.5, 6 Exit Escalator to 1st floor Bus Station
 - 2. Go to No. 5 Exit, No. 3 Bus Platform to transfer the No. 6670 Nantou Bus or "The Taiwan Tourist Shuttle service: Sun Moon Lake Route"
 - The bus going to Sun Moon Lake comes every 60 minutes and it takes about 90 minutes
 - ✓ Nantou Bus single Ticket: NT\$ 190
 - ✓ The Taiwan Tourist Shuttle service fare: NT\$ 190 / one way, NT\$ 340 / round trip

3 Arrive at <u>Taoyuan International Airport</u>

UBUS→ THSR→ Nantou Bus or Sun Moon Lake Route Taiwan Tourist Shuttle Bus

- 1. Please transfer to THSR Taoyuan Station by taking Ubus.
 - ✓ Full fare: NT\$ 30, half fare NT\$ 15.
 - ✓ Intervals: 5 10 minutes intervals during peak times.
 - ✓ Trip length: 25 minutes.

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- 2. Taking THSR form Taoyuan Station to Taichung Station
- 3. Arriving <u>THSR Taichung Station</u>, then transfer to Nantou Bus or "The Taiwan Tourist Shuttle service: Sun Moon Lake Route".
 - ✓ Nantou Bus single Ticket: NT\$ 190
 - ✓ The Taiwan Tourist Shuttle service fare: NT\$ 190 / one way, NT\$ 340 / round trip

○ Arrive at Kaohsiung International Airport

Kaohsiung Rapid Transit (KRTC) → THSR → Nantou Bus or Sun Moon Lake Route Taiwan Tourist Shuttle Bus

- 1. Please transfer to THSR Zuoying Station by taking KRTC.
- 2. Taking THSR from Zuoying Station to Taichung Station.
- 3. Arriving <u>THSR Taichung Station</u> transfer to Nantou Bus or "The Taiwan Tourist Shuttle service: Sun Moon Lake Route".
 - ✓ Nantou Bus Single Ticket: NT\$ 190
 - ✓ The Taiwan Tourist Shuttle service fare: NT\$ 190 / one way, NT\$ 340 / round trip

Schedule-at-a-Glance

Novemb	er 27 th (Fri.)
15:00~18:30	Registration
18:30~	Welcome Reception

Novemb	er 28 th (Sat.)	November	· 29 th (Sun.)
8:30~9:40	Registration	9:30~12:00	Session 1
10:00~10:40	Opening	12:10~13:20	Lunch Break
10:40~11:15	Keynote Speech I	13:30~15:30	Session 2
11:15~12:00	Keynote Speech II		
12:10~13:20	Lunch Break		
13:30~16:00	Session 1		
16:00~16:15	Coffee Break		
16:15~17:00	Keynote Speech III		
17:00~17:45	Keynote Speech IV		
17:45~17:55	SPINTECH Technology		
17.45~17.55	-Thesis Award		
17:55~18:10	Group Photo		
18:30~20:30	Banquet		

Social Event No	vember 30 th (Mon.)
9:00~11:00	Lake Tour by Boat (Gratis)
12:00~13:30	Lunch at Jindu Restaurant
14:00~17:00	Visiting of Chung Tai Chan Monastery
17.00 19.00	THSR Taichung Station
17:00~18:00	National Chung Hsing University

> Time for each presentation (Including the question-and-answer period)

✓ Keynote Speech: 45 mins✓ Presentation: 15 mins

		3F Room A (Assembly Hall)	2F Room B (3rd Meeting Room)
Sat., November 28th	Oral Session I 13:30~16:00	A1. IVIntelligence Computational and Control Approaches for Multi-Physic Coupling Engineering Systems (Open for submission) VIVibroengineering of dynamical systems (macro-, micro-, nano- mechanical, mechatronic, biomechanics and etc. systems) (1). Patent based inventions in applied science and engineering Yi-Hung Liu, National Taipei University of Technology, Session Chair Chin-Sheng Chen, National Taipei University of Technology, Session Chair Chiar	B1. B-Computational and Mathematical Sciences J-Laser applications in sensing, diagnosis and manufacturing (6)-Inventions in processes Hisang-Chuan Liu, Asia University, Session Chair Huei Chu Weng, Chung Yuan Christian University, Session Chair Chao-Ching Ho, National Yunlin University of Science and Technology, Session Chair
		A1-1. 13:30	B1-1. 13:30
		IV124 - A Brain-Computer Interface based Healthcare Control System Integrating P300 and Steady-State Visual Evoked Potentials of EEG	B031 - A novel DEMATEL theory based on Liu's ordering theory
		Yi-Hung Liu, Shih-Hao Wang	Hsiang-Chuan Liu, Yih-Chang Ou, Ben-Chang Shia, Hsien-Chang Tsai,
		A1-2. 13:45	Bl-2. 13:45
		IV106 - Design of an Image-servo Mask Alignment System Using Dual CCDs with a XXY Stage	B091 - Towards Shift Tolerant Visual Secret Sharing Scheme without Pixel Expansion
		Chih-Jer Lin, Chiang-Ho Cheng, Hui-Hsiang Hsu	Justie Su-Tzu Juan, Yung-Chang Chen, Song Guo
		A1-3. 14:00	B1-3. 14:00
		IV109 - Optimal Control Strategy Development for a Series Hydraulic Hybrid Vehicle	B093 - Optimal Improvement Ratios of Multi-Secret Sharing Schemes Can Be Achieved
		Chih-Keng Chen, C.W. Hung, T.V. Vu	Justie Su-Tzu Juan, Jennifer Hui-Chan Tsai, Yi-Chun Wang
		A1-4. 14:15	B1-4. 14:15
		IV110 - Simultaneous Control of Robot End-Effector and Gesture based on Augmented Multi-Tasking Method via Human Teleoperation	B133 - Combined forced and thermocreep convection in a long microchannel
		Hsien-I Lin, Yu-Chen Liu	Huei-Chu Weng
		A1-5. 14:30	B1-5. 14:30
		IV131 - Gradient-based Pose Estimation Using Perspective Deformable Matching	J061 - A Study of the Application of Micro Stamping without a Lower Die to Tapered Bore Forming
		Chin-Sheng Chen, Chien-Liang Huang	Yong-Zhou Hong, Yuan-Jen Chang, Chia-Lung Kuo, Jin-Chen Hsu, Chao-Ching Ho
		A1-6. 14:45	B1-6. 14:45
		VIO83 - Parameter sensitivity of vibration transfer path systems in frequency domain	6229 - A Predicted-based Real-Time Collision Prevention System for Five-Axis Machine Tools
		Wei Zhao, Na Zhou, Yi-Min Zhang	Ching-Hung Lee, Cheng-Wei Lee, Chung-Yi Lin
		A1-7. 15:00	B1-7. 15:00
		1196 - Modeling of Intermesh Schedule for Strong Heavy Plate Roller Straightener and Finite Element Method Modification	6214 - Liu's Generalized Correlation Coefficient based on Log Likelihood Ratio Test Statistic
		Xu Meng, Sun Dengrue, Xu Shimin, Chen Peng, Sun Hao	Hsiang-Chuan Liu
		A1-8. 15:15	B1-8. 15:15
		A1-9. 15:30	B1-9. 15:30
		A1-10. 15:45	C1-10. 15:45

		2F Room B (3rd Meeting Room)	1F Room C (1st Meeting Room)
Sun., November 29th	Oral Session I 09:30-12:00	B1. XRecent Trends in Computer Applications (Invited manuscripts only) KOthers Hung-len Yang, National Kachsiung Normal University, Session Chair Fen-Fen Huang, Oriental Institute of Technology, Session Chair	C1. FAdvanced analysis, design and manufacturing technology for precision Engineering Hau-Wei Lee, Industrial Technology Research Institute, Session Chair Dyi-Cheng Chen, National Changhua University of Education, Session Chair
		B1-1. 9:30	C1-1. 9:30
		X079 - A Study of Effects of Open Ceremony on e-learning Account Sustainability	F019 - Study of 6061 aluminum alloy thread turning
		Hung-Jen Yang, Lung-Hsing Kuo, Li-Ming Chen	Dyi-Cheng Chen, Ci-Syong You, Mu-Jung Yu
		B1-2. 9:45	C1-2. 9:45
		X080 - Exploring Effects of Different Roles on Using an E- learning Service	F039 - Study on cutting for ces in the hard milling of hardened SKD 61 steel using Taguchi and response surface methodology
		Hung-Jen Yang, Lung-Hsing Kuo	Quang-Cherng Hsu, Huu-That Nguyen
		B1-3. 10:00	C1-3. 10:00
		X081 - Identify User's Satisfaction from Platform Using Behavior	F089 - Study on minimum quantity lubricant conditions to reduce the surface roughness in hard milling of SKD 61
		Hung-Jen Yang, Lung-Hsing Kuo	Quang-Cherng Hsu, The-Vinh Do
		B1-4. 10:15	C1-4. 10:15
		X100 - Dynamic Model of the Friendship Network Evolution and Academic Achievement for Adolescence	F119 - Discussion for the Relationship between LaserTRACER ISO Test Result and Linear Positioning Error of Machine Tools
		Hsieh-Hua Yang, C. I. Wu	Hau-Wei Lee, Shan-Peng Pan, Hua-Chung Liou, Po-Br Hsu
		B1-5. 10:30	C1-5. 10:30
		X144 - Exploring subjective well-being in social network sites? - Supplementary fit and social support perspective	F067 - Symmetrical Continuous Multidirectional Ultra-light Ultra-Strong Space Truss Structure
		Ying-Chieh Liu, Hung-Yi Chen, Bo-Yen Yao	Mindaugas Ramaška
		B1-6. 10:45	C1-6. 10:45
		X150 - The Study of Inter-organizational Cooperation in Hospital - A Perspective of Resource-based Theory	F085 - Reliability optimization design of cylindrical gear-drive with multi-failure modes
		Ying Chieh Liu, Chi-Wen Juan, Hung-Chih Lai, Ping-Liang Chen	Na Zhou, Wei Zhao, Xu-Fang Zhang, Chun Mei Lv, Yi-Min Zhang
		B1-7. 11:00	C1-7. 11:00
		X152 - Investigation on the Relationship between Information Communication Technology and Reading Literacy for Northeast Asian Students	F104 - Machining stability of a milling machine with hybrid guideway system
		Yi-Horng Lai	Jui-Pin Hung, Wei-Zhu Lin, Tzou-Lung Luo
		B1-8. 11:15	C1-8. 11:15
		X157 - An Empirical Study of Roadrunners Acceptance of Smart Wearable Devices through Health Anxiety	F186 - Hybrid Electrical Discharge Drilling and Simultaneous Grinding with A High Speed Spindle and Micro Co-Deposition Diamond Tool
		Fen-Fen Huang, Yi-Horng Lai, Hsieh-Hua Yang	Albert Wen-Jeng Hsue, Yu-Fu Chang
		B1-9. 11:30	C1-9. 11:30
		K076 - Relationships between Health Promotion Lifestyle and Health Related Physical Fitness for Middle-Aged and Elderly in Taiwan	
		Tsui-Br Lee	
		B1-10. 11:45	C1-10. 11:45
		K084 - The Effects of the Intervention of Physical Fitness Exercise and Dietary Guidelines on Adolescent Overweight Girls	
		Tsui-Er Lee	

		1F Room D (2nd Meeting Room)		2F Room B (3rd Meeting Room)
Sun., November 29 th	Oral Session I 09:30-12:00	D1. VIIMultimedia communication (Invited manuscripts only) IXComputing and Network Systems (6)-Inventions in processes Jul-Feng Yeh, National Chiapi University, Session Chair Young-Long Chen, National Tatchung University of Science and Technology, Session Chair	Oral Session II 13:30-15:30	B2. G. Advance Manufacturing and analysis technology for Microsystem technology and nanotechnology I. Automation and Intelligent Systems (Invited manuscripts only) (j.) Palent based inventions in applied science and engineering H. Control and Automation Technology, Mechatronics, Robotics for Manufacture and Industry V. Nanomaterials for Flexible and Street hobe Devices: Synthesis, Processes, and Applications (Open for submission) Page-Ching Chang, St. John's University, Session Chair Edmo-Chen In. Far East Diversity, Session Chair H. Cheng Huang, National Changhus University of Education, Session Chair Ming-Tang Lee, National Chung Hung Interest Systems (Chair Ming-Tang Lee, National Chung Hung Interestly, Session Chair Ming-Tang Lee, National Chung Hung Interestly, Session Chair
		D1-1. 9:30		B2-1. 13:30
		VIII.12 - Efficiency Analysis of Partial Shortening Name Prefix in Named Data Networking		G072 - Flexible OLEDs encapsulated with gas barrier films prepared by atomic layer deposition
		Jeng-Muh Hsu, Jui-Yang Chang		Rwei-Ching Chang, Fa-Ta Tsai, Ching-Kong Chao, Pei-Sin Jhu
		D1-2. 9:45		B2-2. 13:45
		IXD94 - A robust cloud access scheme with mutual authentication		ID35 - Design of a two-wheeled self-balancing vehicle utilizing a chattering-free sliding mode control technique
		Chin-Ling Chen, Yong-Yuan Deng		Kuan-Chen Lin, Cong-Hui Huang, Chung-Chi Huang
		D1-3. 10:00		B2-3. 14:00
		IX165 - GLCM-based 2D histogram modification for high-capacity reversible data hiding		1235 - Numerical siulation into slope-climbing capability of PEM fuel cell hybrid scooter
		Wan-Ting Fang, H.C. Wu, C.S. Tsai		Jenn-Kun Kuo
		D1-4. 10:15		B2-4. 14:15
		IX167 - Reversible data hiding for binary images based on 2D histogram modification		H063 - Hybrid Particle Swarm Optimization Strategy for Designing Iterative Learning Controller for Precise Positioning a Linear Motor
		Jie-Ru Wen, C.S. Tsai, H.C. Wu		Yi-Cheng Huang, Ming-Chi Hsu, Jen-Ai Chao, Ming-Yu Ma
		D1-5. 10:30		B2-5. 14:30
		IX161 - Applications of FLC for management schedules with cloud platforms		V095 - A Study on Characteristic Evaluation and Fabrication of Sintered Cu-CNT Composite
		Young-Long Chen, Y.S. Liu		Sun-Chul Huh, Ji-Hun Pak, Bo-Sung Kim, Gwi-Nam Kim, Hyun-Suk Lee, Hyeon-Woo Joo, Jung-Pil Noh
		D1-6. 10:45		B2-6. 14:45
		6197 - A New Invented ERP After-sale Service		V099 - Optimization of Aluminum Nitride Coatings to Enhance Thermal Performance of light-Emitting Diode Modules
		Jung-Sing Jwo		Ming-Der Jean, Maw-Iyan Sheen
		D1-7. 11:00		B2-7. 15:00
		VIII.39 - Chinese Spelling Checker for Secondary Language Learners using Error Template Matching		V236 - Development of laser direct synthesis and patterning technology for fabricating flexible electronics
		Jui-Feng Yeh, K. H. Yu, C. H. Yeh		Ming-Tsang Lee, S.L. Cat, Y.K. Ltu
		D1-8. 11:15		B2-8. 15:15
		VII066 - Clinical Specialty Supporting in Interactive Question Answering System		H204 - Design and Implementation of Hardware-in-the-loop Real- time Simulation Platform for Electromechanical Actuator Based on Matlab/dSPACE
		Jui-Feng Yeh, Ming-Da Kuo, Kao-Pin Hwang		Yun-Hua Li, J.T. Jia
		D1-9. 11:30		
		D1-10. 11:45		

		1F Room C (1st Meeting Room)	1F Room D (2nd Meeting Room)
Sun., November 29th	Oral Session II 13:30~15:30	C2. IL-Sensing Control Analysis and Experiment for Advanced Materials (Open for submission) CModeling, numerical simulation and optimization Cheng-Chi Wang, National Chin-Yi University of Technology, Session Chair Rong-Shue Hsiao, National Taipei University of Technology, Session Chair Ta-Cheng Chen, Asia University, Session Chair Wei Yang, Chongqing University, Session Chair	D2. DComputer and Information design and analysis Technologies (3)-Inventions in devices, sensors and actuators (5)-Inventions in design Ray-Hwa Wong, Hwa Hsia University of Technology, Session Chair Sheng-Iye Hwang, National Cheng Kung University, Session Chair
		C2-1. 13:30	D2-1. 13:30
		II021 - Design of a magnetic flywheel control for fuel cell vehicles	D126 - Energy and Performance Analysis of the Acoustic Echo Canceller with the Hybrid Memory
		Chung-Neng Huang, Yui-Sung Chen	Yao-Hua Chen, Hsu-Chang Huang
		C2-2. 13:45	D2-2. 13:45
		II 120 - Device-free indoor localization based on statistical classifiers	3189 - Invention of a Electrohydraulic Servo Control Volumetric Type Bending Machine
		Rong-Shue Hsiao, Mekuanint Agegnehu Bitern, Shinn-Jong Bair, Hsin-Piao Lin	Ray-Hwa Wong, Ming-Chuan Chen, Jim Su, Thong-Daw Yang, Wei- Heng Wong
		C2-3. 14:00	D2-3. 14:00
		IIO51 - PIV measurement of hydrodynamic properties of raceway pond with the effect of central wall	5215 - Design with White-Light-LEDs for an Automotive Low Beam Projector Headlamp
		Cheol Woo Park, Kyung Won Kim, Woo Hyoung Lee, Yeon Ho Lee, Haider Ali, Moon Kyu Kwak	Sheng-Jye Hwang, Yueh-Ying Chiang, Huei-Huang Lee, Deng-Yuan Hwang, Chien-Chih Liao
		C2-4. 14:15	D2-4. 14:15
		C023 - The Design of Modified PSO Guidance Law Using Predictor and LOS Rate Evaluation	5216 - Pressure Controller Design for a Servo Hydraulic System
		Kuei-Yi Chen, Yung-Lung Lee, Sheng-Ju Liao	Sheng-Jye Hwang, Tzu-Hua Wang, Huei-Huang Lee, Deng-Yuan Huang, Chien-Jung Chen
		C2-5. 14:30	D2-5. 14:30
		C116 - Multi-objective Competitive Location Problem with Distance- Based Attractiveness	5185 - Intelligent Driving Circuit for Ultrasonic Transducers
		Sheng-Chuan Wang, Ta-Cheng Chen	Shiang-Hwua Yu, Yi-Fei Hsieh, Yi-Ling Chen, Jen-Jie Wang, Pei- Ying Lai, Chih-Po Yang, Pei-Kun Lin
		C2-6. 14:45	D2-6. 14:45
		C096 - A Study on Analysis Method of Offshore Heave Compensator	3219 - Calculation and Analysis of the Responsivities and Efficiencies of the β-FeSi ₂ p-i-n Photodiodes
		Cwi-Nam Kim, Sung-Gu Hwang, Jang-Hwan Hyeon, Young-Hwan Yoon, Yong-Gil Jung, Sun-Chul Huh	Jung-Sheng Huang, Kuan-Wei Lee, Tian-Cheng Lin, Che-Chi Li, Chang-Lin Tsai
		C2-7. 15:00	D2-7, 15:00
		C153 - Parametric Study of Defect Detection in Pipes with Bend Using Focused Guided Waves	3220 - Calculation and Analysis of the Responsivities and Efficiencies of the BaSi ₂ p-i-n Photodiodes
		Xìn Wang, J. J. Tan, N. Guo, J. H. Ho	Jung-Sheng Huang, Kuan-Wei Lee, Tian-Cheng Lin, Quan-Sheng Xie, Wei-Ming Li, Zhong-Ying Jiang
		C2-8. 15:15	D2-8. 15:15
		C179 - Modeling and modal analysis of a Hoist Equipped with Two-stage Planetary Gear Transmission System	
		Wei Yang, Xiaolin Tang, Xiaoan Chen, Bo Qian	

-		IF Poster Room (Recreation Center)	
Ī		Poster 1.	Poster 14.
Sun., November 29th	Poster 1 10:00-10:40	B056 - Power-Flow Analysis of an 11-Speed Internal Hub Transmission	IO11 - Develop ment of Intelligent Fuzzy controller for two axis so lar tracking system
		K-Chang Wu, M.Y. Hsieh, L.A. Chan	Cong-Hui Huang, Chia-Hung Wang, Jing-Rung Lin, Yu-Tang Su, Jun-Jie Chen
		Poster 2.	Poster 15.
		C033 - Simulation of Mechanical Resistive Loading Effect on Optimal Respiratory Control Modelwith added Dead Space and CO ₂ Breathing	1070 - Using multiple-selection particle swarm optimization for achieving optimal security-based preventive dispatch in power systems
		Shyran-Lung Lin, Hsing-Chong Chang, Chieh-Liang Wu	Cong Hui Huang, Yi-Ming Tsao, Yu-Tang Su, Heng-Yau Pan, Cheng- Kai Tsai
		Poster 3.	Poster 16.
		C092 - A Synchrop hasor Based Op timal Voltage Control Scheme with Successive Voltage Stability Margin Improvement	IIO24 - Thermal Strain Measured by Fiber Bragg Grating Sensors
		Heng-Yi Su, Yi-Chuong Chen, Yu-Liang Hsu	Shiuh-Chuan Her, Cleih-Ying Huang
		Poster 4.	Poster 17.
		C098 - Helical-Cathode Bulb-Shaped Field Emission Lamps Using Carbon Nanocoil Electron Emitters	IIO78 - Optimization of operating condition of geothermal system based on supercritical CO ₂ heat extraction
		Fi-Ping Chou, Nen-Wen Pu, Fih-Ming Liu, Ming-Der Ger, Kung-Hsu Hou, Meng-Jey Youh	David T.W. Lin, Bo-Yen Shih, Jai-Ching Hsieh
		Poster 5.	Pester 18.
		D013 - Design of cam mechanism with negative radius roller- follower	III 30 - Data Association of Aerial Robot Monocular Visual Localization and Mapping
		Jong Fa Hsieh, Wen-Chang Hsieh	Ym-Tien Wang Chung-Hsun Stot, Ting-Wei Chen, Chen-Trong Chi
		Poster 6.	Poster 19.
		D198 - A Study on the Development of Realistic Testhed for the UX(UsereXperience) Profiling in a Service Design	J032 - Characterization of the controlled laser cleaving on ultra- thin glass with advanced laser technique
		Song Yi Kim, Youngchoong Park, Byoungha Park, Seong Dong Kim, Kwang Mo Jung Myung-Hyun Yoon	Hsiang-Chen Hsu, Steh-Jeh Wu, Wen-Pei Lin
		Poster 7.	Poster 20.
		F 123 - Surface analysis of AISI 410 stainless steel cladding with AIN and Si, Co, W powder	K117 - Effect of acid rain on surface of human hair cuticles
		Tzang-Ming Chen, Hsin-Min Lee, Stang-Scheng Wu, Zhong-Jia Huang	Chia-Ling Chang, Tsung-Han Ho, Te-Hua Fang
		Poster 8.	Poster 21.
		G077 - Pull in behavior Analysis for the Double-Clamp NEMS incorporating Casimir and van der Waals Forces	VU71 - Effect of Sp uttering Power on Optical and Electrical Properties of ITO Films
		Chin-Chia Liu	Shiuh-Chuan Her, Chun-Ru Chang
		Poster 9.	Poster 22.
		H047 - Robust Hinf Observer-Based Control of Uncertain Neutral Systems with Mixed Delays	H034 - Remote Control of a Mobile Robot for Indoor Patrol
		Jeng-Der Chen, Rusy-Shin Chen, I-Te Wu, Chin-Tan Lee	Jih Gau Juang, S.Y. Juang
		Poster 10.	Poster 23.
		H132 - Sequentially switched fuzzy control for wheeled mobile robots	IIO97 - Explore Unknown Environment Using Ultrasonic and Infrared Sensors
		Chung-houn Sun, Yin-Tien Wang, Sheng-Kai Huang	Jih-Gau Juang, Ki-Che Yang
		Poster 11.	Poster 24.
		H137 - An FPGA-Based Multiple-Axis Velocity Control Chip Design	III 48 - Adap tive control of active magnetic bearing against milling dynamics
		Chiu-Keng Lai, Wei-Nan Chen, Yaw-Ting Tsao	Rong-Mao Lee
		Poster 12.	Poster 25.
		1010 - Advanced MPPT Control Strategy for Wind/PV/Fuel Cell Hybrid Power System in Micro-grid application	K073 - Evaluating performance of DGM(2,1) model and its modelis
		Cong-Hui Huang, Chih-Ming Hong, Kuan-Chen Lin, Shang-Jen Chuang	Hoang-Sa Dang, Ying-Pang Huang, Chia-Nan Wang, Shin-Te Lai
		Poster 13.	Poster 26.
		H087 - Optimization and Application of Composite Ultrasonic Extraction Method to Analysis of Effective Constituents of Green Tea	1195 - Variable twist blade design and realization for a more effective wind generation
		Cheng-Chi Wang T.E. Lee	Piero GILI, Giacomo FRULLA

Poutr 2 VIII.16 - A Heat Calection Solts Tracker with Fromal 10:40-11:20 Third of Solter Thermal Application 10:40-11:20 Third of Solter Thermal Application 10:40-11:20 Third Conference of Solter Officer Officer of Solter Officer of Solter Officer of Solter Officer		lF Poster Room (Recreation Center)	
December 2016 Proceedings December 2016		Annual Control of the	Poster 14.
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F154 - Experimental study of loss transfer in the radially rotating convergent channel of verted brube dish for a utomosh like for the control of the contro		Sheng-Clung Tzeng, T. M. Jeng, C.X. Wang, X.Y. Peng	Shirds Chuan Her, Chils Ying Huang
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F136 - Technique development and performance testing of the novel heat exchangers with cross runners Shong Chang Teong T.M. Jong H.H. Chon, C.H. Chang Poster 6. Poster 19. 4212 - Suchenzotrizzole (BTA) Composite Bio-nanooil by Chemical Reduction. Chon-Yang Wu, Man-Aung Kao Poster 7. 5172 - Development of a Clobally Active Balance Module with Range Extension Effect. Ange Chyan Lin, Kang-Lin Lat Poster 8. S213 - Fatigue Analysis and Optimization Design of the CNC Cloth of the aromatic discenses Also Chang Lin, Chang-Jon Lin, SUPERTEC MACHINERY DECORPORATED Poster 9. 4218 - Photosensitization study on the oxidizing chemiluminescence of the aromatic discenses Jan Too Na, Sun-Cheng Chang Chang China China China China China Chang Jong Poster 10. 3222 - Total lonkation Radiation Sensor Performance Improvement by Using Strick MONOS Device Wen-Ching Hook Book Hao-Time Lee, Fide Cheng Jong Sitch-Chang With Link Chang With Chang China Chang China China Chang Species combined with the heading the rinduced whispering galler mode fifter and FBG consolors.		Sheng-Chung Tzeng, Tzer-Ming Jeng, Bo-Jun Yang	Hui-Feng Huang, Yong-Feng Lu, An-Ting Liu
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4212 - Sn. benzotriazole (BTA) Composite Bio-nanooil by Chemical Reduction Chen-Yang Wi, Mas-Jung Kao Poster 7. \$172 - Development of a Globally Active Balance Module with Range Extension Effect Jong-Cityon Lin, Tang-Lin Lai Poster 8. \$213 - Fatigue Analysis and Optimization Design of the CNC Cylindrical Grinder Stu-Chang In, Chang-Jen Lin, SUPERTEC MACHINERY (Chang In, Chang Jen Lin, SUPERTEC MACHINERY (Chang In, Chang Jen Lin, SUPERTEC MACHINERY (Chang In, Chang Jen Lin, Super Chi Chang Sha-Hausa Teh Poster 12. 4218 - Photosensitization study on the oxidizing chemiluminescence of the aromatic discense Jon Tao Jie, Share-Chi Chang Mang-Chi Chang Sha-Hausa Teh Poster 13. 4222 - Total Ionization Radation Sensor Performance Improvement by Using Si-rich MONOS Device West-Ching Histeh Deniel Hao-Tien Lee, Fish Chang Jong Shich Chang May, Danse Hist, The ITsai Poster 14. C188 - Design and optimization of bi directional-rotation herringbone grooved journal bearings Chang Share Into Chang Chang Wang Chine Chang Shore, Chang filter and FBG sensor Share-Chang Histeh Chang interrogation system combined with the bending file or induced whispering galler mode filter and FBG sensor Share-Chang Histor, Chang Gina-Chin Chang Share-Chang Histor, Chang Gina-Chin Chang Share-Chang Risang, Chan-Chin Chang Share-Regulation of Gamage locating vectors approach o monitoring sheek iso in the system West-Chin St. Q T. Le. C.S. Huang Poster 24. C188 - Design and optimization of bi directional-rotation herringbone grooved journal bearings Share-Regulation of Chang Histor, Chang Histor, Chang Chin Chin Chang Share-Regulation Chang Histor, Chang Gina-Chin Chinage Share-Regulation Chang Histor, Chang Chin-Chinage Share-Regulation Chang Histor, Chang Chin-Chinage Share-Regulation Chang Share-Chinage Share-Regulation Chang Share-Chin Chinage Share-Regulation Chang Share-Chinage Share-Regulation Chang Share-Chinage Share-Regulation Chang Share-Chinage Share-Regulation Chang Share-Chinage Share-Regulation Chang Share-China		Sheng Chung Tzeng, T.M. Jeng, H.H. Chen, C.H. Chang	Fih-Chien Chen, Chih-Hung Li
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Poster 10. Poster 23.			J118 - The Effects of Different Parameters on the Temperature Field of Plasma Assisted Machining Titanium Alloy (Ti-6Al-4V)
3222. Total Ionization Radiation Sensor Performance Improvement by Using Skrich MONOS Device Wen-Ching Histeh, Daniel Hao-Tien Lee, Puln-Chong Jong Stich-Chazen We, Dawie Heh, Tan-l Tien Poster 11. C058. Design and optimization of bi-directional-rotation herringbone grooved journal bearings Control Sensor Int. Chean No. Chang No. Chang Int. Sensor Int. Chean No. Chang No. Chang Int. Sensor Int. Chean No. Chang No. Chang Int. Sensor Int. Chean Int. Chean Int. Chean Int. Chean Int. Chean Int. Sensor Int. Chean Int.			Shao-Hsien Chen, Cheng-Shen Ko
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			combined with the bending fiber induced whispering gallery
	I	Chien-Sheng Liu, Chien-Yu Chen, Yu-Cheng Li	Sheng-Feng Wang. Chien-Chang Huang, Chia-Chin Chiang, Liren Tsai, Tao-Hsing Chen
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6233 - An Inwerse Electroacoustic Method Estimate Nonlinear Electrical Parameters of Moving-Coil Loudspeaker 3206 - Optical fiber gas sensor utilizing to ng-period fiber grating coated with nanoporous silica foams			
Chi-Chang Wang, Jin-Huang Huang, Thi-Thao Ngo Chia-Chin Chiang, Chao-Wei Wu		Chi-Chang Wang, Jin-Huang Huang, Thi-Thao Ngo	Chia-Chin Chiang, Chao-Wei Wu
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1247 - Innovative methodology to 3-D Point Cloud Registration Prob lem for Automatic Object Digitization in Robot Scanning		Registration Problem for Automatic Object Digitization in	
Liang-Chia Chen, Divit-Cuong Hoang, Hoien-I Lin, Thanh-Hung Ngayen		Liang-Chia Chen, Dinh-Cuong Hoang, Hsien-I Lin, Thanh-Hung Nguyen	

	_	1F Poster Room (Recreation Center)	
		Poster 1.	Poster 13.
Sun., November 29th	Poster 3 11:20-12:00	3194 - Experimental Study for Thermoelectric Self Cooling	5232 - Measurement of Pupil Size by Direct Measurable Pen Flashlight and Scanned Pen Flashlight
		Kuo-Chi Liu, Yuen-Shin Chen, Mu-Kai Chen	Piao-Yi Chiou, Pei-hung Liao, Chian-yu Chen, Chang-Feng Chun, Pei-Jung Wu, Yong-Zih Lin, Stu-Ying Lee
		Poster 2.	Poster 14.
		4224 - High Refractive Organic-Inorganic Hybrid Films Prepared by Low Water Sol-Gel and UV-irradiation Processes	1243 - Development of a high precision real-time optical straightness and angular error measuring system
		Chien-Hsin Yang, Hsiao-Yuan Ma, Pei-Yu Chang	Hau-Wei Lee, Yu-Chi Liu, Chien-Hung Liu
		Poster 3.	Poster 15.
		5239 - Innovation of medicine giving pacifier and its effect	4211 - Mechanical and microstructural analysis of NiAl alloy with different Copper contents
		Pei-Hung Liao, Piao-Yi Chiou, Star-Ying Lee, Yong-Zih Lin, Pai-Kai Chiang	Tao-Hsing Chen, Jian-Hong Wu
		Poster 4.	Poster 16.
		1173 - Surface and Nanofriction Characteristics of Hair Cuticles	III.35 - Investigation for the Influence of Excitation Frequency to Atomic Force Microscope System
		Chia-Ling Chang, Tsung Han Ho, Te-Hua Fang	Cheng-Chi Wang, H.T. Yau, Y.S. Hsieh
		Poster 5.	Poster 17.
		J240 - Measurement of displacement system by moiré phase analysis	VIII160 - Fatigue Life Analysis of Cantilever Probe on Wafer Test
		Yang Yang, Hung-Sheng Chang, Ju-Yi Lee	Te-Ching Hsiao, Shyh-Chour Huang, Hao-Yuan Chang
		Poster 6.	Poster 18.
		B129 - Comprehensive Weighted Clique Degree Ranking Algorithms and Evolutionary Model of Complex Network	CO14 - High Performance Concrete Compressive Strength Simulation Using Ensemble Intelligence Models
		Jie Xu, Zhen Liu	Jui-Sheng Chou
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		II225 - Investigations on the cosputtered ITO-ZnO transparent electrode olunic contacts to n-GaN	C082 - Finite Element Analysis of Total Knee Joint Replacement during Deep Double Leg Descending Flexion
		Day-Shan Liu, Wei-Hua Hsiao, Tai-Hong Chen, Li-Wen Lai, Ching- Ting Lee, Jyun-Yong Li, Hong-Jyun Lin, Nan-Jay Wu	Styth-Chour Huang, Usman
		Poster 8.	Poster 20.
		F012 - Investigation of a Mixed Fe and Al ₂ O ₃ Particles Impregnated Polishing Pad during Polishing of Single-Crystal Silicon Carbide	3208 - A Study of Fiber Bragg Grating in Underwater Pressure Vessels Deformation Monitoring
		M.Y. Tsai, C.C. Tsai	Chia-Chin Chiang Kuan-Chieh Chen, Tso-Sheng Hsieh, Chao-Wei Wu, Yung-Chang Li
		Poster 9.	Poster 21.
		IV122 - Reconfiguration for the maximum dynamic wrench capability of a parallel robot	3207 - A notched long-period fiber grating magnetic field sensor with ferrofluid
		Chun-Ta Chen, Chih-Jer Lin	Chia-Chin Chiang Sheng-Føng Wang
		Poster 10.	Poster 22.
		IX113 - Medical Resources Governance by a Cloud-based Medical Information System	VII030 - Skip N-gram modeling for Near-Synonym Choice
		Chih-Kim Ke, Jia-Chi Liao, Min-Cheng Chen	Will Cheng-Wei Li, Suh-Ting Chen, Liang-Chih Yu
		Poster 11.	Poster 23.
		VIII048 - Optical and Electrical Properties of GZO Thin Film Deposited on Flexible Substrates	B028 - Heliograph imaging Based on CS with latent feature maps
		Tao-Hsing Chen, Ting-You Chen	Suzhen Wang, L.M. Wang
		Poster 12.	Poster 24.
		F111 - Analysis of the real-time compensation for thermal error at CNC milling machine	
		Tsung-Chia Chen, Chia-Jung Chang	