

Table of Contents

Part I SCET 2013 Conference Schedule	2
Part II Invited Speeches	4
Part III Oral Sessions	9
Session 1: Applied Mathematics	9
Session 2: Material Sciences and Technology (1)	9
Session 3: Material Sciences and Technology (2)	10
Session 4: Applied Mathematics and Physics	11
Session 5: Chemical Engineering, Agriculture and Food Engineering	12
Session 6: Electrical and Electronics Engineering	14
Part IV Instructions for Presentations	15
Part V Hotel Information	16
Contact Us	16

Part I SCET 2013 Conference Schedule

Registration May 31~ June 2, 2013

Registration Time	Date	Location
14:00-18:00	May 31 st , 2013	
08:00-18:00	June 1 st , 2013	3 rd floor, Optics Valley Kingdom Plaza
08:00-10:00	June 2 nd , 2013	

Saturday Morning, June 1

Activity	Location: 3 rd floor, Optics Valley Kingdom Plaza
Invited Speech: Development of Ultrasensitive Piezoresistive Strain Sensors Made From Carbon Nanofiller/Epoxy Nanocomposites Speaker: Prof. Ning Hu , Chiba University, Japan Time: 08:30-09:10, June 1, 2013 Session 2, 3rd Floor, Qintai Room(琴台厅)	
Invited Speech: Heteronanostructures: Preparation, and Applications in Photocatalytic Hydrogen Production and Micro/nanomotors Speaker: Prof. Jianguo Guan , Wuhan University of Technology, China Time: 09:10-09:50, June 1, 2013 Session 2, 3rd Floor, Qintai Room(琴台厅)	
Invited Speech: Smart Polymeric Materials for Biotechnology Speaker: Prof. Guojie Wang , University of Science and Technology Beijing, China Time: 09:50-10:30, June 1, 2013 Session 2, 3rd Floor, Qintai Room(琴台厅)	

Saturday Morning, June 1

Time	Activity (Coffee Break 10:30 ± 10:50)	Location: 3 rd Floor, Optics Valley Kingdom Plaza
	Oral Session 1: Applied Mathematics	Qingchuan Room(晴川厅)
08:30 ± 12:00	Oral Session 2: Material Sciences and Technology (1)	Qintai Room(琴台厅)

Saturday Noon, June 1

12:00 ± 13:30	Lunch Buffet	Location: 3rd Floor, Western Dining Room(西餐厅)
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Saturday Afternoon, June 1

Time	Activity (Coffee Break 16:00 ± 16:20)	Location: 3 rd Floor, Optics Valley Kingdom Plaza
	Oral Session 3: Material Sciences and Technology (2)	Qingchuan Room(晴川厅)
14:00 ± 18:00	Oral Session 4: Applied Mathematics and Physics	Qintai Room(琴台厅)

Saturday Evening, June 1

18:00 ± 19:00	Dinner Buffet	Location: 3rd Floor, Western Dining Room(西餐厅)
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Sunday Morning, June 2

Activity	Location: 3 rd Floor, Optics Valley Kingdom Plaza
Invited Speech: Production Rf Novel Dairy Foods Naturally Enhanced with Omega 3 Fatty Acids Speaker: Prof. SURESH K GULATI , University Of Sydney, Australia Time: 08:30-09:10, June 2, 2013 Session 5, 3rd Floor, Qingchuan Room(晴川厅)	
Invited Speech: Fast Block Diagonal-wise Jacket Matrices for MIMO Mobile Wireless Channels Speaker: Prof. Moon Ho Lee , Chonbuk National University, Korea (South) Time: 08:30-09:10, June 2, 2013 Session 6, 3rd Floor, Qintai Room(琴台厅)	
Invited Speech: Optimal Rate Scheduling via Utility-Maximization for J-User MIMO Markov Fading Wireless Channels with Cooperation Speaker: Prof. Wanyang Dai , Nanjing University, China Time: 09:10-09:50, June 2, 2013 Session 6, 3rd Floor, Qintai Room(琴台厅)	

Sunday Morning, June 2

Time	Activity (Coffee Break 10:30 ± 10:50)	Location: 3 rd Floor, Optics Valley Kingdom Plaza
08:30 ± 12:00	Oral Session 5: Chemical Engineering, Agriculture and Food Engineering	Qingchuan Room(晴川厅)
	Oral Session 6: Electrical and Electronics Engineering	Qintai Room(琴台厅)

Monday Morning, June 3

Conference Tour

Registration for tour on June 1st from 8:30 to 18:00

Part II Invited Speeches

Invited Speech: Development of Ultrasensitive Piezoresistive Strain Sensors

Made From Carbon Nanofiller/Epoxy Nanocomposites

Speaker: Prof. Ning Hu, Chiba University, Japan

Time: 08:30-09:10, June 1, 2013

Location: Session 2, 3rd Floor, Qintai Room (琴台厅)



Abstract

In this work, firstly, based on effective multi-scale numerical modeling and simulations, three possible mechanisms of piezoresistivity in polymer nanocomposites with carbon nanofiller (CNF, e.g., carbon nanotube and carbon nanofiber), i.e., 1) variation of conductive networks formed by CNFs; 2) tunneling resistance change in neighboring CNFs and 3) piezoresistivity of CNFs themselves, have been systematically explored. Based on the numerically obtained knowledge for the working mechanisms of the piezoresistivity, a set of resistance-type strain sensors has been fabricated from metal-coated CNF/epoxy nanocomposites. Two nanofillers, i.e., multi-walled carbon nanotubes (MWCNTs) and vapor growth carbon nanofibers (VGCFs) with nickel, copper and silver coatings were used. The ultrahigh strain sensitivity was observed in these novel sensors as compared to the sensors made from the CNFs without metal-coating and conventional strain gauges. In terms of gauge factor, the sensor made of VGCFs with silver coating is estimated to be 155, which is around 80 times higher than that in a metal-foil strain gauge. In experiments, the possible mechanism responsible for the high sensitivity and its dependence with the networks of the CNFs with and without metal-coating and the geometries of the CNFs were further investigated thoroughly.

Invited Speech: Heteronanostructures: Preparation, and Applications in

Photocatalytic Hydrogen Production and Micro/nanomotors

Speaker: Prof. Jianguo Guan, Wuhan University of Technology, China

Time: 09:10-09:50, June 1, 2013

Location: Session 2, 3rd Floor, Qintai Room (琴台厅)



Abstract

Heteronanostructures are composed of bi- or multiple components with heterogeneous interfaces. They may not only combine the excellent properties of the disparate components, but also possess some enhanced or novel synergistic properties that arise from the interactions between the components. For instance, semiconductor heteronanostructures with matched band positions significantly promote the separation of photogenerated

electron-hole pairs, endowing them with a competitive performance compared to the single-component nanomaterials in the applications of solar cells and photocatalytic hydrogen production etc.. As a well-defined Heteronanostructure, Janus particles show inherently anisotropic chemical and physical properties, and have gained growing interests in a number of potential applications such as two-phase stabilizers, and nanomotors etc..

This presentation demonstrates the general and convenient synthesis approaches developed in our group that allow for the facile preparation of semiconductor heterostructured composites, as well as Janus particles. These heterostructured composites exhibit highly efficient photocatalytic activities for hydrogen production due to the unique roles of the heteronanostructures in the separation and transfer of photogenerated charge carriers. Janus particles may act as micro/nanomotors due to the asymmetric release of gas bubbles. For example, our recently developed Mg/Pt Janus micromotor with the assistance of NaHCO₃ exhibits efficient autonomous motion in water fuel as well as in the biological medium. It has important potential biomedical applications, such as drug delivery and cell separation etc., because of the excellent hemocompatibility as well as the harmless resultants.

- [1] F. Mou, C. Chen, H. Ma, Y. Yin, Q. Wu, J. Guan*, *Angew. Chem. Int. Ed.* 2013, DOI: 10.1002/anie.201300913.
- [2] F. Mou, C. Chen, J. Guan*, D.-R. Chen, H. Jing, *Nanoscale* 2013, 5, 2055-2064.
- [3] L. Li, L. Xu, W. Shi, J. Guan*, *Int J Hydrogen Energy*, 2013, 38, 816-822.
- [4] F. Mou, L. Xu, H. Ma, J. Guan*, D.-R. Chen, S. Wang, *Nanoscale* 2012, 4, 4650-4657.
- [5] J. Duan, W. Shi, L. Xu, G. Mou, Q. Xin and J. Guan*, *Chem. Commun.* 2012, 48, 7301-7303.
- [6] L. Xu, J. Guan*, W. Shi, *ChemCatChem*, 2012, 4, 1353-1359.
- [7] L. Xu, W. Shi, J. Guan*, *Catal. Commun.*, 2012, 25, 54-58.
- [8] L. Xu, J. Guan*, W. Shi, L. Liu, *J Colloid Interface Sci*, 2012, 377, 160-168.
- [9] L. Xu, J. Guan*, L. Gao, Z. Sun, *Catal Commun*, 2011, 12, 548-552.
- [10] J. Duan, W. Shi, L. Xu, J. Guan*, *Nat. Commun*, 2013, to be submitted.

Invited Speech: Smart Polymeric Materials for Biotechnology

Speaker: Prof. Guojie Wang, University of Science and Technology Beijing, China

Time: 09:50-10:30, June 1, 2013

Location: Session 2, 3rd Floor, Qintai Room (琴台厅)



Abstract

Recently, smart polymeric materials for biotechnology have been paid more and more attention for their wide biological and biomedical applications. Here, photo-responsive molecular switches for protein adsorption and desorption, fluorescent polymers for detection of DNA hybridization, and multi-responsive polymeric nanomicelles for drug controlled release are presented.

References

- [1] H. Wu, J. Dong, C. C. Li, Y. B. Liu, N. Feng, L. P. Xu, X. W. Zhan, H. Yang, G. J. Wang. Multi-Responsive Nitrobenzene-Based Amphiphilic Random Copolymer Assemblies. *Chem. Commun.*, 2013, 49, 3516-3518.
- [2] J. Dong, Y. N. Wang, J. Zhang, X. W. Zhan, S. Q. Zhu, H. Yang, G. J. Wang. Multiple Stimuli-Responsive Polymeric Micelles for Controlled Release. *Soft Matter*, 2013, 9, 370-373.
- [3] R. C. Zhang, L. Y. Yang, M. Zhao, J. Dong, H. F. Dong, Y. Q. Wen, X. W. Zhan, H. Yang, G. J. Wang. Synthesis and Fluorescence Study of A Pyrene-Functionalized Poly(4-vinylpyridine) quaternary ammonium for Detection of DNA Hybridization. *Polymer*, 2013, 54, 1289-1294.
- [4] M. Zhao, L. Y. Yang, R. C. Zhang, J. Dong, H. F. Dong, Y. Q. Wen, X. W. Zhan, G. Wang, Y. F. Lu, G. J. Wang. Detection of DNA Hybridization by a Pyrene-Labeled Polyelectrolyte Prepared by ATRP. *Polymer*, 2013, 54, 297-302.
- [5] L. Y. Yang, M. Zhao, R. C. Zhang, J. Dong, T. Zhang, X. W. Zhan, G. J. Wang. Synthesis and Fluorescence Study of a Quaternized Copolymer Containing Pyrene for Detection of DNA Hybridization. *ChemPhysChem* 2012, 13, 4099-4104.
- [6] G. J. Wang, J. Zhang. Photoresponsive Molecular Switches for Biotechnology. *J. Photochem. Photobiol. C: Photochem. Rev.* 2012, 13, 299-309.
- [7] J. Zhang, T. Hu, Y. B. Liu, Y. X. Ma, J. Dong, L. P. Xu, Y. D. Zheng, H. Yang, G. J. Wang. Photo-Switched Protein Adsorption on Electrostatic Self-Assembly Azobenzene Films. *ChemPhysChem* 2012, 13, 2671-2675.

Invited Speech: Production of Novel Dairy Foods Naturally Enhanced with Omega 3 Fatty Acids

Speaker: Prof. SURESH K GULATI, University Of Sydney, Australia

Time: 08:30-09:10, June 2, 2013

Location: Session 5, 3rd Floor, Qingchuan Room (晴川厅)



Abstract

The microbial reactions in the rumen often limit the efficient utilisation of the dietary components of feed/pasture, which influences the composition of milk and thus limit the production of milk.

Globally research efforts are being undertaken to make nutrients in feedstuff i.e., protein, fat and other dietary components inert from ruminal degradation. As this will enable and supply increased levels of nutrients such as essential amino acids, essential fatty acids and energy to improve animal health, increase milk yield and enhance the nutritional quality of milk.

China's rapid urbanization and increasing disposable income have prompted a huge rise in the consumption of dairy products, with consumers demanding high quality products.

To meet consumer nutritional demand to reduce calories and saturated fat to overcome the world obesity and heart health crisis, the dairy Industry has become innovative with processes to manufacture milk and dairy products. A variety of dairy products such as skim, light-fat reduced and combination of dairy/vegetable oil blends are being marketed in supermarkets with consumer concern and confusion about their nutritional benefits.

Recent research has shown that (ALA, C18:3) alpha linolenic acid along with its longer chain metabolites, which can also be derived from algal biomass i.e., (DHA C22:6) docosahexaenoic acid have an important role in cardiovascular health and other physiological functions in humans (Stark et al. 2008).

We have undertaken R&D globally producing inert feed-supplements fed at pasture, and in feedlots, dairy cows can metabolise dietary fat, synthesize/secrete milk fat with increased levels of omega-3 fatty acids, without causing metabolic disturbances i.e. decreasing milk fat with losses in the fat-soluble vitamins, or increase the deleterious trans-fats. Naturally derived nutritionally desirable omega 3 fatty acids have no "off" flavours that may occur in blended dairy products.

In recent years, we have been collaborating with dairy industries in Europe and Asia to produce naturally enriched milk with omega-3 ALA using soybean-flaxseed, DHA using soybean-algal biomass to enhance adult and infant nutrition. The level of omega 3 enrichment in milk can be varied by the amount and type of supplement included in the diet. DHA is also associated nutritionally with enhanced neural development, cognitive function and improved vision in neonates (Gulati et al. 2012).

Invited Speech: Fast Block Diagonal-wise Jacket Matrices for MIMO Mobile Wireless Channels

Speaker: Prof. Moon Ho Lee, Chonbuk National University, Korea (South)

Time: 08:30-09:10, June 2, 2013

Location: Session 6, 3rd Floor, Qintai Room (琴台厅)



Abstract

Block diagonalization (BD) is a linear precoding technique for multiuser multi-input multi-output (MIMO) broadcast channels such that it completely eliminates the multiuser interference, but it is computationally inefficient. BD supports multiple data streams per user by using precoders orthogonal to the channel of other users such that inter-user interference is cancelled. This linear precoding scheme also achieves near to the sum capacity of MIMO broadcast channels. Let be a matrix, then it is called a Jacket matrix when. That is, the inverse of the Jacket matrix can be determined by its element-wise inverse. In this abstract, we propose new matrix decomposition, called the block diagonal Jacket matrices decomposition and extend the block diagonal channel decomposition with which the MIMO broadcast channel capacity can be achieved. We also discuss block diagonal Jacket matrices decomposition because it is ordinary inverse matrix. Jacket matrices are very fast algorithm, so we can calculate complexity easily. In multiuser

broadcast channels, unlike the single-user MIMO, cooperation is not permitted between different users. However, receive equalization is possible for each user. There have been several schemes proposed for low complexity MIMO broadcast communications.

Nowadays, communication environment changes to 4G mobile system employing MIMO such as multiuser channel. Coordinated multi-point transmission and reception (CoMP) technique is a new promising interference cancelling scheme which has been adopted in LTE-Advanced. For the next generation of wireless communication networks, CoMP is mostly required to reduce inter-cell interference (ICI). It also increases the intra cell edge user throughput and improves the coverage. Recently, most research works based on precoding with feedback schemes mainly focus on explicit feedback in the downlink CoMP. We have investigated MIMO CoMP based on block-wise inverse Jacket matrix.

Invited Speech: Optimal Rate Scheduling via Utility-Maximization for J-User MIMO Markov Fading Wireless Channels with Cooperation

Speaker: Prof. Wanyang Dai, Nanjing University, China

Time: 09:10-09:50, June 2, 2013

Location: Session 6, 3rd Floor, Qintai Room (琴台厅)



Abstract

We design a dynamic rate scheduling policy of Markov type via the solution (a social optimal Nash equilibrium point) to a utility-maximization problem over a randomly evolving capacity set for a class of generalized processor-sharing queues living in a random environment, whose job arrivals to each queue follow a doubly stochastic renewal process (DSRP). Both the random environment and the random arrival rate of each DSRP are driven by a finite state continuous time Markov chain (FS-CTMC). Whereas the scheduling policy optimizes in a greedy fashion with respect to each queue and environmental state and since the closed-form solution for the performance of such a queueing system under the policy is difficult to obtain, we establish a reflecting diffusion with regime-switching (RDRS) model for its measures of performance. Furthermore, we justify its asymptotic optimality through deriving the stochastic fluid and diffusion limits for the corresponding system under heavy traffic. In addition, we identify a cost function related to the utility function, which is minimized through minimizing the workload process in the diffusion limit. More importantly, our queueing model includes typical systems in the future wireless networks, such as, the J-user multi-input multi-output (MIMO) multiple access channel (MAC) and the broadcast channel (BC) under Markov fading with cooperation and admission control as special cases.

Part III Oral Sessions

Session 1: Applied Mathematics

Session Chair: Pin Tian Ng, Northern Arizona University, USA

Time: 08:30-12:00, Saturday, June 1

Location: 3rd Floor, Qingchuan Room(晴川厅)

Paper Id	Paper Title	Author	Affiliation
60094	Change-point Analysis by Modified Empirical Likelihood Method in Two-Phase Linear Regression Models	Hualing Zhao	Wuhan University of Technology
60524	Trajectory Controllability of Semilinear Differential Evolution Equations with Impulses and Delay	Maojun Bin	Guangxi University for Nationalities
60569	Existence and Uniqueness Of Positive Solutions for A Coupled System of Nonlinear Fractional Differential Equations	Minjie Li	Guangxi University for Nationalities
60155	Models of The Short Interest Rate in Discrete Processes	Naoyuki ISHIMURA	Hitotsubashi University
60530	Imputed Empirical Likelihood for Varying Coefficient Models with Missing Covariates	Peixin Zhao	Hechi University
60580	A Geometrical Theorem about the Static Equilibrium of A Common-Point-Force System and Its Application	Guoquan Zhou	Wuhan University
60411	XLR: A Free Excel Add-In for Introductory Business Statistics	Pin Ng	Northern Arizona University
60586	A Modified Augmented Lagrangian Method for A Class of Nonlinear Ill-Posed Problems	MHBM Shariff	Khalifa University of Science, Technology and Research
60356	Images of Linear Block Codes over $F_q+Uf_q+Vf_q+Uvf_q$	Jane Palacio	University of the Philippines Los Banos
60216	Courant-) $U^H U^K V^M$ Hypothesis And Stability of The Weak Shock Wave Satisfying the Lopatinski Condition	Dmitry Tkachev	Sobolev Institute of Mathematics

Session 2: Material Sciences and Technology (1)

Invited Speeches: Prof. Ning Hu, Chiba University, Japan

Prof. Jianguo Guan, Wuhan University of Technology, China

Prof. Guojie Wang, University of Science and Technology Beijing, China

Session Chair: Alexander Naumov, Nekrasov Kostroma State University, Russia

Time: 8:30-12:00, Saturday, June 1

Location: 3rd Floor, Qintai Hall(琴台厅)

Paper Id	Paper Title	Author	Affiliation
60505	Use of Strain Energy Density W and Q ₀ as Quality Indices for Rating the Quality of Cast Aluminium Alloy 354 as a Function of Processing Parameters	Prateek Sibal	VIT University
60332	Synthesis and Photoelectrical Properties of Graphene-Cu ₂ O Nanostructures	Qianqian Zhu	Qingdao University of Science and Technology
60404	Dissolution, Crystallisation, and Sintering of A Raw Matt Glaze for Porcelain Tiles	Chin Chiat Lee	Rio Tinto Minerals Asia Pte. Ltd.
60300	Microwave Dielectric Properties and Its Compatibility With Silver of Glass-Ceramic Based on Co-Fire at Low Temperature	Hui Shao	Jiangsu University of Science and Technology
60293	Anodic Plasma Electrolytic Saturation of Steels by Carbon and Nitrogen	Alexander Naumov	Nekrasov Kostroma State University
60271	Anodic Plasma Electrolytic Nitrocarburizing of Low-Carbon Steel	Sergei Kusmanov	Nekrasov Kostroma State University

Session 3: Material Sciences and Technology (2)

Session Chair: Dongyan Ding, Shanghai Jiao Tong University, China

Time: 14:00-18:00, Saturday, June 1

Location: 3rd Floor, Qingchuan Room(晴川厅)

Paper Id	Paper Title	Author	Affiliation
60130	Mechanical Properties and Fatigue Behavior of Age Treated Die Cast Almg5si2mn Alloy	Zuqi Hu	Huazhong University of Science and Technology
60046	Microstructure and Electrochemical Properties of Ce-Containing 7072 Al Alloy	Dongyan Ding	Shanghai Jiao Tong University
60364	Damage Progression in Unidirectionally Arrayed Chopped Strands Laminates with Different Slit Patterns under Tension	Hang Li	Kyushu University
60035	High Temperature Resistance Effect of SrO/ (SrO+CaO) in Alkali-Free Boro-Aluminosilicate Glasses	Yingliang Tian	Beijing University of Technology
60347	Characterization of Iron Oxide Nanoparticles for Sol-Gel Dip-Coating Method Prepared Thin Films	Janina Setina	Riga Technical University
60040	Comparison of One-step Method and Two-step Method of Ilmenite Concentrate Smelting Titanium Slag	PAN Rong-jian	Xihua University
60308	Morphological Studies of Polyphosphazenes and Its Nano-composites Using Solid-state Nuclear Magnetic Resonance Spectroscopy	Chuchu Sun	University of Lethbridge
60572	Electrical Transport Properties of Single SiC NW-FET	Gang Peng	National University of Defense Technology
60334	Solidification Paths within the Ceramic Systems	Vasily Lutsyk	Russian Academy of Sciences

Paper Id	Paper Title	Author	Affiliation
60214	Li,Na,Rb,La F System for Molten Salt Reactor: 3D and 4D Computer Models	Vasily Lutsyk	Russian Academy of Sciences
60292	Quaternary Reciprocal Systems with the Inner Diagonals: Variants of Polyhydration	Vasily Lutsyk	Russian Academy of Sciences
60374	Luminescence properties of Al ₂ O ₃ nanopowders with different phases	Laima Trinkler	University of Latvia
60455	Blue Luminescence of Hexagonal Boron Nitride	Baiba Berzina	University of Latvia

Session 4: Applied Mathematics and Physics

Session Chair: Yun Chiu, University of Texas at Dallas, USA

Time: 14:00-18:00, Saturday, June 1

Location: 3rd Floor, Qintai Hall(琴台厅)

Paper Id	Paper Title	Author	Affiliation
60529	A Cosmological Model with Varying G and in General Relativity.	Harpreet Kaur	Punjab Technical University
60310	Numerical Simulations of the Equations of Particle Motion in the Gas Flow	Kelong Zheng	Southwest University of Science and Technology
60445	Empirical Processes in Stochastic Optimization	Dietmar Ferger	Technische Universitat Dresden
60108	A Closed-Form Solution of Effective $\langle R_{ij} \rangle$ Modulus for Composites Including Multi-Shape Inclusions Using Improved Mori-Tanaka Model	Dongmei Luo	Foshan University
60422	On the Sub-Critical Bifurcation of Anti-Phase and In-Phase Synchronized Vortex Shedding Forms	Yih Ferng Peng	National Chi Nan University
60145	An Arbitrated Quantum Signature Scheme Based on Chaotic Quantum Encryption Algorithm	Ying Guo	Central South University
60100	The M3Y Double Folding Dissipative Model in Agreement with Precise Fusion Cross Sections	Igor Gontchar	Omsk State Transport University
60576	Laser Conoscopic Research Technique for Single Crystals LiNbO ₃ :Mg	Olga Pikoul	Far Eastern State University of Transportation
60379	Acousto-Resonance Spectroscopy of Nonlinear-Optical Crystals in Process of Laser Frequency Conversion	Oleg Ryabushkin	Moscow Institute of Physics and Technology
60110	Phenomenological and Semi-Microscopic Analysis for The Elastic Scattering of Protons from ¹² C Nuclei at Different Energies	Nurlan Amangeldy	Eurasia University
60176	Essential Topics on Constructing WCDS-based Virtual Backbone in Wireless Sensor/Mesh Networks	Chie Dou	National Yunlin University of Science and Technology
60297	Reliability of Attenuation Properties Recovery for Viscoelastic Media	Ekaterina Efimova	Trofimuk Institute of Petroleum Geology

Paper Id	Paper Title	Author	Affiliation
60755	A Comparative Study of Amplitude and Timing Estimation in Experimental Particle Physics using Monte Carlo Simulation	Yun Chiu	University of Texas at Dallas
60759	Convergence to Common Solutions of Various Problems for Nonexpansive Mappings in Hilbert Spaces	Kyung Soo Kim	Kyungnam University
60731	1-A Cosmological Model with Varying G and Λ ; In General Relativity	harpreet Kaur	PTU
60693	Influence of Tensor Interaction on Evolution of Nuclear Shells	Rupayan Bhattacharya	University of Calcutta
60809	Search for $\Lambda\Lambda$ Hyper-nuclei Using Antiprotons in PANDA	Hannan Younis	Politecnico Di Torino, INFN ITALY
60658	Bulk Properties of Symmetric Nuclear and Pure Neutron Matter	Hesham mansour	Sohag University
60119	Geometrically Exact Theory of Contact Interactions \pm further Developments and Achievements	Alexander Konyukhov	University of Nottingham-Ningbo China

Session 5: Chemical Engineering, Agriculture and Food Engineering

Invited Speeches: Prof. SURESH K GULATI, University Of Sydney, Australia

Session Chair: Zainal Samicho, Universiti Teknologi MARA, Malaysia

Time: 08:30-12:00, Sunday, June 2

Location: 3rd Floor, Qingchuan Room(晴川厅)

Paper Id	Paper Title	Author	Affiliation
60382	Study on Extraction of Cucurbitacin B from the Pedicel of Cucumis Melo L. By Acid Hydrolysis	Xing Xu	Zhejiang University of Technology
60060	Stress Analysis of the Underground Gas Storage Well Stored CNG Based on the Finite Element Method	Chengli Song	Northwest University
60055	Synthesis of (S)-Tert-Butyl 3-Hydroxybutyrate by Asymmetric Reduction of Tert-Butyl Acetoacetate with <i>Saccharomyces Cerevisiae</i> B5	Zhimin Ou	Zhejiang University of Technology
60408	Recovery of Uranium (VI) from Water Solutions by Membrane Extraction	Grazyna Zakrzewska	Institute of Nuclear Chemistry and Technology
60111	The Development of Soy Sauce from Organic Soy Bean	Shoupeng Wan	Tianjin University of Science & Technology
60431	Slight Free Falling Impact Test for Assessing Guava Maturity	Cheng-Chang Lien	National Chiayi University
60135	Determination of Okadaic Acid Related Toxins from Shellfish (<i>Sinonovacula constricta</i>) by High Performance Liquid Chromatography Tandem Mass Spectrometry	Hai-qi ZHANG	Zhejiang Fisheries Quality Testing Centre
60584	Effect of Organic Fertilizers Used in Sandy Soil on The Growth of Tomatoes	Yongxia Hou	Shenyang University

Paper Id	Paper Title	Author	Affiliation
60494	Biochemical Changes During Composting of Coir Pith Waste as Influenced by Different Agro Industrial Wastes	Muthu rayar	Sathyabama University
60088	Conversion of Ragi husk (polysaccharides) to reducing sugars by acid Hydrolysis and its estimation by different standard volumetric methods	S Chandraju	University of Mysore, Tubinakere
60301	Amino Acid Composition of Droughtmaster Beef at Various Beef Cuts	ZAINAL SAMICHO	Universiti Teknologi MARA
60551	The Worst Thermal Runaway Behaviors of Four Commercial 14500 Lithium-ion Batteries with Closed Heating Instrument	Tsai-Ying Hsieh	National United University
60553	Thermal Hazard Study on Electrolytes in Lithium-ion Battery	Yu-Yun Sun	National United University
60376	Physicochemical and Radical Scavenging Activities of Honey Samples From Malaysia	Norul Liza A.Rahaman	Universiti Teknologi Malaysia
60319	Effect of Radio Frequency (RF) Treatments for Pest Control and Qualities of Vacuum Packed Rice	Su-Der Chen	National Ilan University
60313	Study of Microwave Extraction Crude Polysaccharides and Triterpenoids from Poria cocos Solid-state Fermented Products	Bo-Han Chen	National Ilan University
60543	Accumulation of microcystins in water and economic fish in Phayao Lake, Northern Thailand	Niwooti Whangchai	Maejo University
60792	The role of the membranes in sustainable development	Andrzej Koltuniewicz	Warsaw University of Technology
60378	Evaluation of pesticide residues in fruit from Poland and health risk assessment	Bozena Lozowicka	Plant Protection Institute - National Research Institute
60649	Mechanical And Morphological Properties of Polypropylene/Polyoxymethylene Blends	Sirirat Wacharawichanant	Silpakorn University
60198	Optimisation of Beef Tenderisation Treated with Bromelain Using Response Surface Methodology(RSM)	ZAINAL SAMICHO	Universiti Teknologi MARA
60746	Study of Germination Method for GABA Rice Production by Using Gaseous and Heat treatment	Umaporn Yoosabai	Kasetsart University
60747	Statistical Comparison of Nitrate Concentrations in Three Vegetables as Affected by Environmental Changes over 24 H Periods	WAI-KUN CHAN	Taiwan National I-Lan University
60620	Antimicrobial Effect of Ozonated Water against Salmonella Typhimurium on Salad Vegetables	Ilkin Sengun	Ege University
60309	Isolation of aromatic yeasts(non-Saccharomyces cerevisiae) from Korean traditional nuruks and identification of fermentation characteristics	Choi Ji Ho	Rural Development Administration
60384	Superabsorbent polymer for water management in forestry	Miguel Casquilho	Technical University of Lisbon

Session 6: Electrical and Electronics Engineering

Invited Speeches: Prof. Moon Ho Lee, Chonbuk National University, Korea (South)

Prof. Wanyang Dai, Nanjing University, China

Session Chair: Charlie Wang, University of Colorado, USA

Time: 08:30-12:00, Sunday, June 2

Location: 3rd Floor, Qintai Hall(琴台厅)

Paper Id	Paper Title	Author	Affiliation
60298	Robust Performance of Scene Matching Algorithm	Zhaohui Xia	; IQD5 HMDFK, QW High-tech
60150	A Adaptive Particle Filter Based Method for Real Time Face Tracking	Wei-Ming Chen	National Ilan University
60597	Quantum Group Signature Scheme Based on Chinese Remainder Theorem	Xin Sun	Central South University
60156	Economic Analysis of the Investment in Smart Substation	Wang Yaping	State Grid Beijing Economic and Technology Research Institute
60106	Three-defense Line Coordination Strategy of the Guizhou Power Grid with the New Security Situation	Wen-cheng Zheng	South China University of Technology
60128	Design and Application of A MCU-based Smart Contactor System	Huang Fuqing	Civil Aviation University of China
60141	Reliability Improvement Strategies for HVDC Transmission System	Yidong Hong	South China University of Technology
60114	Equivalent Substitution Based Method for Calculation of Best Installed Capacity of Pumped Storage Power Station	Jinming Li	South China University of Technology
60284	Designing a Full Adder Circuit Based on Quasi-Floating Gate	Sahar Bonakdarpour	Azad University
60515	Optimal Power Allocation Scheme for Downlink CoMP Systems	Jun Li	Chonbuk National University
60999	Optimal Channel Sensing Order and The Related Stopping Rule in Cognitive Radio	Junyuan Huang	Wuhan University
60582	Jacket Matrix Based on Modular (3, 5, 6) Lattice Triangular Expansion	Wei Duan	Chonbuk National University
60278	Survey of Clustering Schemes in Mobile Ad hoc Networks	Abdelhak Bentaleb	University of Bachir el Ibrahimi, Bordj Bou Arreridj
60661	A Sphere Detection Based Adaptive MIMO Detection Algorithm for LTE-A System	Xuanli Wu	Harbin Institute of Technology Harbin
60306	An Analysis of Buck Converter Efficiency in PWM/PFM mode with Simulink	CHIAJIU WANG	University of Colorado
60600	Computer Assisted Alerts Using Mental Model Approach for Customer Service Improvement	Abid Ghaffar	International Islamic University Ma-laysia

Paper Id	Paper Title	Author	Affiliation
60725	An Iterative Maximum Likelihood Synchronization Method for OFDM System	Chi-Min Li	National Taiwan Ocean University
60786	A Space Vector Modulation Based Three-level PWM Rectifier Under Simple Sliding Mode Control Strategy	Azeddine Draou	University of Hail
60828	Robustness and Accuracy Test of Particular Matter Prediction Based on Neural Networks	Jiamei Deng	Kingston University London
60736	An Automatic Synchronization Method for Distributed Power Electronics System	Cheng Zhang	Huazhong University of Science and Technology
60692	Optical Design of OCT with Gapped Magnetic Ring	SU Xiaoyi	Fuzhou University
60647	Energy Harvesting based on Magnetic Dispersion for Three-Phase Power System	Cleonilson 3URWRGH Souza	Universidade Federal da Paraiba

Part IV Instructions for Presentations

Devices Provided by the Conference Organizing Committee:

- Laptops (with MS-office & Adobe Reader)
- Projectors & Screen
- Laser Sticks

Materials Provided by the Presenters:

- PowerPoint or PDF files

Duration of each Presentation:

- Regular Oral Session: 15 Minutes of Presentation, 5 Minutes of Q & A
- Plenary Speech: 40 - 45 Minutes of Presentation, 5 Minutes of Q & A

Part V Hotel Information

About Hotel

Optics Valley Kingdom Plaza, Wuhan centrally located in the heart of Optics Valley, Wuhan,China, with the beautiful East lake Scenic Spot and Desheng Mountain. Situated on landscape road of East Lake, it will become another landmark at the bank of East Lake. Close proximity to Wuhan Science&Technology Convention and Exhibition Center.

Address: No.1 Wujiawan, Hongshan, Wuhan, Hubei, P.R.China
武汉市洪山区吴家湾特1号（珞喻路武汉科技会展中心旁）

Homepage: <http://www.whkingdom.com/ggkingdom.aspx>

Telephone: +86 27 87887788

Facsimile: +86 27 87881188

E-mail: kingdomplaza@whkingdom.com

How to Get to the Hotel

From the Tian He Airport:

Take a taxi to No.1 Wujiawan, Hongshan, Wuhan (Time: about 90 minutes)

From the Railway Station:

Take a taxi to No.1 Wujiawan, Hongshan, Wuhan (Time: about 30 minutes)

For non-Chinese author, please show the following info to the driver if you take a taxi:

请送我到：武汉市洪山区吴家湾特1号 光谷金盾大酒店

Contact Us

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