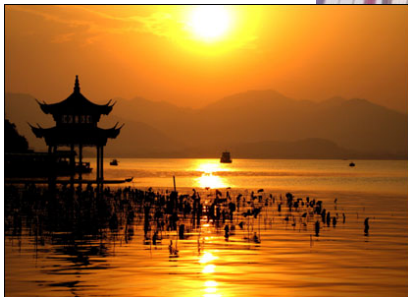




Program of WSEAS Conference in
Hangzhou, China
April 6-8, 2008



PROGRAM at a Glance

SUNDAY, APRIL 6, 2008

	ROOM A	ROOM B	ROOM C
08:00-09:00	Plenary Lecture 1		
09:00-10:00	Plenary Lecture 2		
10:00-10:30	Coffee Break		
10:30-11:30	ACACOS Session: Advanced Computer Technologies for Networks	MUSP Session: Multimedia Systems & e-Learning I	IMCAS Session: Instrumentation, Electronics, Measurement
11:30-12:00			
12:00-12:30			
12:30-13:00			
13:00-13:30			
13:30-14:00	Coffee Break – Light Lunch Break		
14:00-14:30	ACACOS Session: Simulation and Modelling	MUSP Session: Signal Processing I	ROCOM Session: Robotics and Control
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MONDAY, APRIL 7, 2008

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09:00-10:00	Plenary Lecture 4		
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10:30-11:30	ACACOS Session: Computers and Networking	MUSP Session: Signal Processing II	ACACOS Session: Data Mining & Web Applications I
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13:30-14:00	Coffee Break – Light Lunch Break		
14:00-14:30	ACACOS Session: Modelling, Optimization & Applications	ACACOS Session: Software Engineering & Artificial Intelligence	ACACOS Session: Data Mining & Web Applications II
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13:30-14:00			
14:00-14:30	ACACOS Session: Applied Software Engineering and Computational Intelligence	IMCAS Session: Circuits & Systems	ROCOM Session: Robotics Systems and Control
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PRELIMINARY PROGRAM

7th WSEAS Int. Conf. on APPLIED COMPUTER and APPLIED COMPUTATIONAL SCIENCE (ACACOS '08)

Hangzhou, China, April 6-8, 2008

Sunday, April 6, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 1

Inverse Acoustic and Electromagnetic Obstacle Scattering: Theory and Numerics

Professor Jun Zou

Department of Mathematics
The Chinese University of Hong Kong

Abstract: In this talk we shall present some breakthroughs that have been achieved in the past few years on inverse acoustic and electromagnetic obstacle scattering problems. Both theory and numerical simulations will be discussed. This is a joint work with Dr. Hongyu Liu (Washington University, Seattle) and supported by Hong Kong RGC grants (Project 404105 and Project 404606).

Brief Biography of the Speaker:

Jun ZOU is a Professor in Department of Mathematics of The Chinese University of Hong Kong. Before taking up his current position in Hong Kong, he had worked two years (93-95) in University of California at Los Angeles (USA) as a post-doctoral fellow and a CAM Assistant Professor, worked two and a half years (91-93) in Technical University of Munich as a Visiting Assistant Professor and an Alexander von Humboldt Research Fellow (Germany), and worked two years (89-91) in Chinese Academy of Sciences (Beijing) as an Assistant Professor. His research areas include numerical solutions of electromagnetic Maxwell systems, interface problems, ill-posed Problems and inverse Problems. He has about 70 publications in the refereed international journals.

ROOM A'

09:00-10:00

PLENARY LECTURE 2

Fractal Time Series and Tele-Traffic



Professor Ming Li

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East China Normal University,
Shanghai 200241, PR. China

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Business URL: [http://www.ee.ecnu.edu.cn/teachers/mli/js_lm\(Eng\).htm](http://www.ee.ecnu.edu.cn/teachers/mli/js_lm(Eng).htm)

Personal URL: <http://www.freewebs.com/mingli/>

Abstract: Fractal time series gains applications in various fields of sciences and technologies ranging from financial engineering to network traffic. The speech will describe several models of fractal time series, such as fractional Gaussian noise, the generalized Cauchy process, and so on. Possible applications of fractal time series to networking will be discussed.

Brief Biography of the Speaker:

Ming Li, Ph.D., is a professor in electronic communications and information systems, as well as computer science at East China Normal University, PR. China. He was with the School of Computing, National University of Singapore, before joining East

China Normal University in 2004. His research areas relate to applied statistics and signal processing with the recent interests in fractal time series and time-frequency analysis, computer science currently focusing on network traffic modeling and network security, and measurement & control in the aspects of error analysis and optimal control. He has published over refereed 60 papers in international journals and international conferences in those areas.

10:00-10:30: Coffee-break

ROOM A'

10:30-13:30

SESSION: Advanced Computer Technologies for Networks

Chair: Nikos Bardis

UCSMdess: ubiquitous computing service model based on D-S evidence theory and extended SPKI/SDSI	<i>Daoqing Sun, Yishu Luo, Qiyong Cao</i>	586-110
Nonlinear Finite Element Analysis on the Steel Frame with Semi-rigid Connections	<i>Wang Xinwu</i>	586-113
UCAIPM: Ubiquitous Computing Agile Information Protection Mechanism	<i>Daoqing Sun, Qiyong Cao</i>	586-127
Quick sampling method for cubic Bezier curves by chordal error	<i>Sheng-Gwo Chen</i>	586-152
UCCSSM: ubiquitous computing context-aware service supply mechanism	<i>Daoqing Sun, Qiyong Cao</i>	586-182
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Port Throughput Forecast Based on Nonlinear Combination Method	<i>Jianfeng Li, Yan Chen, Xusheng Cui</i>	586-464
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Towards secure legally valid long-term electronic archive using pattern approach	<i>Helena Halas</i>	586-707
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the Role of Critical Success Factors		
A Soft Decision Feedback Turbo Equalizer (SDFE) for Data Communication	<i>Aruna Tripathy, Sant Sharan Pathak and Saswat Chakrabarti</i>	586-375

13:30-14:00: Coffee Break - Light Lunch Break

ROOM A'

14:00-17:30

SESSION: Simulation and Modelling

Chair: Constantin Udriste,

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Working space representation for the human upper limb in motion	<i>Antoanela Naaji</i>	586-400
The Numerical and Experimental Study of Radiation Pattern from Various Shaped Reflectors Base on PO and PTD Method	<i>Vanvisa Thavirot, Piyaporn Krachodnok, and Rangsan Wongsan</i>	586-521
Web History Archive In Large Scale Web	<i>Sunghoon Cho, Euiin Choi</i>	586-247
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a novel and accelerated genetic algorithm	<i>Bao-juan Huang, Jian Zhuang, De-hong Yu</i>	586-278
Investigating axial flow between eccentric cylinders	<i>Jane Labadin, Yiiong Siew Ping, Andrew G. Walton</i>	586-555

Applying mathematical programming elements to answer market needs: case studies of optimization of electrical power flow	<i>Emerson Eustaquio Costa, Luiz Danilo Barbosa Terra, George Leal Jamil</i>	586-602
learning techniques of CAD operations to restore partial omissions in 2D drawings	<i>Masaji Tanaka, Toshiaki Kaneeda, Daisuke Sasae, Junichi Fukagawa, Ryosuke Yokoi, Machiko Fujiwara</i>	586-607
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Issues, Threats and Future Trend for GSP	<i>L. Y. Por, x. T. Lim</i>	586-580
Information Hiding: A New Approach in Text Steganography	<i>L. Y. Por, b. Delina</i>	586-634
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Verification Skip Writes Head-Positioning Error Mechanism	<i>Anant Oonsivilai ,Nittaya Meeboon</i>	586-645
Evaluation Models for Choosing Insurance Policy Using the AHP, Fuzzy Logic, and Delphi Technique	<i>Chin-sheng Huang, Yu-Ju Lin, Che-Chern Lin</i>	586-635
A Modified PCX Image Compression Algorithm	<i>Che-chern lin</i>	586-658

Monday, April 7, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 3

Analytical Synthesis Method---A New Circuit Design Method for Arbitrary Requirements



Professor Chun-Ming Chang

Senior Member, IEEE

Dept. of Electrical Engineering, Chung Yuan Christian University,

Chung-Li, Taiwan 32023, R. O. China

E-mail: chunming@dec.ee.cycu.edu.tw

Abstract: Analytical Synthesis Method (ASM) has been presented in several papers published in the IEEE Transactions on Circuits and Systems since 2003. It is one of the powerful design methods in the field of analog circuit design. It is the method using a succession of innovative algebra manipulation operations to decompose a complicated transfer function representing the relationship between the output and the input signals of a design project into many simple equations feasible by using the corresponding simple sub-circuitries. The simple sub-circuitries can be constructed by the desired configuration of the element such as the single-ended-input operational transconductance amplifiers (OTAs) and the grounded capacitors, both of which are used for absorbing and reducing the shunt parasitic capacitance and lead to have more precise output responses. In addition to this, the ASM can control the number of the terms in the complicated decomposition process such that the number of both active and passive components used in the circuit is the least compared to the previously reported ones. Then, the ASM is the only one method which can simultaneously achieve the three important criteria for the design of OTA-C circuits without trade-offs.

Due to the flexibility of the ASM, the simple sub-circuitries used in the circuit design can be changed and chosen according to different necessities for the target of the circuit design. For example, if the reduction of the number of the active and passive components used in the circuit is more important than the type of the element configurations like single-ended-input/differential-input OTAs and grounded/floating capacitors due to the consideration about power consumption, chip area, noise, and total parasitics....., etc., the minimum component OTA-C circuit can also be investigated and developed successfully using the ASMs. The fully flexible characteristic and the real demonstration in the literature of the ASM may make it be one of the most prospective methods in the field of analog circuit design in the near future.

ROOM A'

09:00-10:00

PLENARY LECTURE 4

Real-time In vivo and In situ Cellular Image Processing and Characterization: Challenges and Solutions



Associate Professor LIN Feng

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Nanyang Technological University
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Abstract: We study the feasibility of 3D virtual histology through real-time in vivo and in situ cellular imaging. A prototype system has been developed based on photodynamic fluorescence signals, confocal endomicroscopy, and FPGA image processing and characterization computing. Experiments in its clinical applications have been conducted, mainly for diagnosis of early-stage mucous cancer. With the fine-grained parallel imaging programs mapped on the FPGA, a stream of focused optical sections of microstructures in the subsurface layers up to 300 μ m in depth, can be processed online and the extracted features can be visualized seamlessly with the endomicroscopy settings.

Brief Biography of the Speaker:

Lin Feng, PhD, is an Associate Professor in School of Computer Engineering, Nanyang Technological University, Singapore. His research interests include bioinformatics, bioimaging and visualization, and high-performance computing. He has published about one hundred technical papers in journals, conferences and books, and served in several editorial boards and conference organization committees.

10:00-10:30: Coffee-break

ROOM A'

10:30-13:30

SESSION: Computers and Networking

Chair: Chun-Ming Chang, Ming Li

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A Harmonical Model for Approximating the Identity in Min-Plus Convolution	<i>Ming Li, Wei Zhao</i>	586-158
Sufficient Condition for Min-Plus Deconvolution to Be Closed in the Service-Curve Set in Computer Networks	<i>Ming Li, Wei Zhao</i>	586-159
Modeling lane dynamics	<i>Abdul Malik Khan Andrew Paplinski</i>	586-314
An Experiment of the Life Support Network for Elderly People in a Rural Area	<i>Jun Sasaki, Keizo Yamada, Michiru Tanaka And Yutaka Funyu</i>	586-556
Ontology matching based on Probabilistic Description Logic	<i>ZhiMing Li, Shanping Li, Zhiyu Peng</i>	586-128
Development of Fault Diagnosing System for Air-conditioning Systems	<i>Ming-Tong Tsay Chia-Hung Lin</i>	586-132
Throughput Analysis of Burst Transmissions in IEEE 802.11e WLANs with a Fading Channel	<i>Jain-Shing Liu</i>	586-576
Multilayered Multicast Algorithms for Ad Hoc Wireless Networks	<i>Osamah Badarneh, Michel Kadoch, Ahmed Elhakeem</i>	586-561

ROOM C'

10:30-13:30

SESSION: Data Mining & Web Applications I

Chair: Ming Li,

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WSRP-Enabled Distributed Data Mining Services Deliverable over a Knowledge-Driven Portal	<i>Vasile Georgescu</i>	586-151
On Reducing Decision Complexity	<i>Sylvia Encheva, Sharil Tumin</i>	586-185
Services in Untrusted Environment	<i>Sylvia Encheva, Sharil Tumin</i>	586-186
A Principle of a Data Synthesizer for Performance Test of Anti-DDOS Flood Attacks	<i>Ming Li, Wei Zhao</i>	586-283
A Note on Statistically Detecting Tampered Type Attacks	<i>Ming Li, Wei Zhao</i>	586-284
Research on Coordinate Degree Evaluation among Organizations of B2B EC based on the Model of Bayes Attribute Synthetic Evaluation	<i>Shibin Su ,ZhenYu Liu</i>	586-329
Automatic Tag Recommendation for Web 2.0 Blogosphere by Extracting Keywords from Similar Blogs	<i>Sigma On Kee Lee and Andy Hon Wai Chun</i>	586-352
A Lightweight Web-based Application Framework for Web 2.0 Using Python	<i>Andy Hon Wai Chun</i>	586-354
Implementation of data-exchanging system based on Message Oriented Middleware in Website	<i>Zhang Xiaoshuan, Wu Qinghua, Zhao Ming</i>	586-097
Research on Data Expression in J2EE Architecture system	<i>Zhang Xiaoshuan, Chen Peijun, Zhao Ming</i>	586-098
Universal Symbolic Translator for Procedural Language over SQL	<i>Calin-Adrian Comes, Lucian-Dorel Savu, Ioan Ovidiu Spatacean, Beatrice Stefan, Avram Ancuta</i>	586-598
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Informatics Crime	<i>Carmen Sonia Duse, Dan-Maniu Duse, Marcel Ioan Rusu</i>	586-641

13:30-14:00: Coffee Break - Light Lunch Break

ROOM A'

14:00-17:30

SESSION: Modelling, Optimization & Applications

Chair: *Anping Xu, Vu Ngoc Pi,*

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Optimal determination of partial ratios of three-step helical gearboxes with first and third step double gear-sets for getting minimal gearbox length	<i>Vu Ngoc Pi</i>	586-111
A study on optimal calculation of partial transmission ratios of four-step helical gearboxes with second and fourth step double gear-sets	<i>Vu Ngoc Pi</i>	586-112
Optimal meshes embedding of Mobius cubes	<i>Chang-Hsiung Tsai, Jheng-Cheng Chen, Yung-Chun Lai</i>	586-122
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ROOM B'

14:00-17:30

SESSION: Software Engineering & Artificial Intelligence

Chair: Edson Pacheco Paladini, Anping Xu

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Aspect Design Pattern for Non Functional Requirements	<i>Fazal-e-Amin, Ansar Siddiq, Hafiz Farooq Ahmad</i>	586-147
Virtual Reality Approach in Acrophobia Treatment	<i>Nazrita Ibrahim, Mustafa Agil Muhamad Balbed, Azmi Mohd Yusof, Faridah HaniMohammed Salleh, Jaspaljeet Singh, Mohamad Shahrul Shahidan</i>	586-184
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Research of Mobile Database System Based On Mobile Agent	<i>Jian Yu, Yunhe Pan</i>	586-156
An Improved Normal-Free BPA Algorithm for 3D Surface Reconstruction	<i>Yang Guang, Ji Shiming, Chen Shengyong</i>	586-471
wordnet-based document summarization	<i>Chenghua Dang, Xinjun Luo</i>	586-394
Intelligent system for multimodal transport planning and containers monitoring - MNS	<i>Gabriela Rodica Hrin</i>	586-549

ROOM C'

14:00-17:30

SESSION: Data Mining & Web Applications II

Chair: Nikos Bardis

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Does Interactivity Matter for Females to Learn Computer Skills On-line	<i>Ming-Puu Chen</i>	586-383
Promoting ICT Skills Learning through Compensating Weaker Learning Style	<i>Li-Chun Wang & Ming-Puu Chen</i>	586-384
Creative media experience for engineers	<i>Siu-kay Pun</i>	586-410
Can TF-IDF and Fuzzy Logic Improve Onomasiological Inference Ranking? Or Keywords Frequency is Good Enough?	<i>Alberto Barrón-Cedeño, Gerardo Sierra, Nicolás Kemper</i>	586-388
The Application of Formal Concept Analysis for Modeling Hospital Clinic Processes	<i>Telung Pan, Kwoting Fang</i>	586-418
Improving Effectiveness of Virtual Tutoring Assistant Systems by Pseudo Relevance Feedback	<i>Ji-wei Wu, Judy C.R. Tseng</i>	586-424
Implementing Efficient Data Synchronization for Mobile Wireless Medical Users	<i>Adrian Sergiu Darabant</i>	586-429

The Research of the Transport Route from Different Angles	<i>Tingsheng Weng</i>	586-451
attitude of professors and students about virtual learning at colleges in Iran	<i>Ali akbar Shaikhi fini</i>	586-458
a comparative two-group study to e-note	<i>Shaista Rashid, Dimitris Rigas</i>	586-563
SOA-based conceptual model for continuous auditing: A discussion	<i>Huanzhuo Ye, Shuai Chen, Fang Gao, Yuning He</i>	586-404
A Continuous Auditing Model Based on Web Services	<i>Huanzhuo Ye, Yuning He</i>	586-405
using multimodal interfaces to browse internet search results	<i>Antonio Ciuffreda, Dimitrios Rigas</i>	586-616
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Is Adaptive Learning Effective? A Review of the Research	<i>Elena Verdú, Luisa M. Regueras, María J. Verdú, Juan P. de Castro, María A. Pérez</i>	586-637
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The Impact of Multi-Players Serious Games on the Social Interaction among Online Students versus Face-to-Face Students	<i>Samah Mansour, Mostafa El-Said,</i>	586-604

Tuesday, April 8, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 5

Multimedia system – 3d Interactive Model Web (3DIMW)



Professor Rong-Jyue Fang
Department of Information Management,

College of Management, STUT,
Taiwan
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Abstract: Based on the functions of theoretical foundations and related literature analysis, study group develop a multimedia system named: 3D Interactive Model Web (3DIMW). The original purpose of research work targeting on constructing a learning platform for three-dimensional computer animation. The feasibility was based on the evaluated functions of 3-D animation techniques and the prototype constructed. Platform derived from three-dimensional computer animation technique associated with ASP.NET and SQL Database.

After the completion of platform, consequent procedures were applied to examine the usefulness of it. Graphic science and drawing course was the object comes up with first choice. Later a Turbulence Phenomena simulation and nano sized physical representation showed that it is a good tool for learning complicated image description and maneuvering sophisticated micro-devices.

Brief Biography of the Speaker:

Dr. Rong-Jyue Fang – 1984 graduated from The Pennsylvania State University IED Department PhD program. He had been Director of Computation Center, Department Chair of Industrial Technology, and Dean of R&D Office in National Kaohsiung Normal University, later, been a President of National Taitung (East Taiwan) University. In 2005, he moves to Southern Taiwan University of Technology as a Chair Professor.

He concentrates his research on multimedia hardware, software, and system development for more than twenty years and gain more than twenty years financial support from Taiwan's National Science Council. In recent years, he works mostly on 3D Interactive Model Web.

09:00-09:30: Coffee-break

ROOM A'

09:30-13:30

SESSION: Software Engineering and Computational Intelligence

Chair: Rong-Jyue Fang, Andreea Zamfir

A Study on the Research of Rule Establishment for Effective Code Inspection : Case of "A" Company's Information Systems	<i>Taewon Kyung, Sangkuk Kim</i>	586-213
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a comparison of neural network, rough sets and support vector machine on remote sensing image classification	<i>Hang Xiao, Xiubin Zhang, Yumei Du</i>	586-538
a flexible framework for view-based 3d model retrieval	<i>Hang Xiao, Xiubin Zhang, Yumei Du</i>	586-539
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Improving academic results of students by means of computer applications	<i>Javier Bilbao Eugenio Bravo Olatz Garcia Concepcion Varela Miguel Rodriguez Veronica Valdenebro Gorka Garate Izaskun Baro Purificacion Gonzalez Emiliana Uranga</i>	586-648
AINI - Embodied Conversation Agent Applicable for Interactive Games	<i>Goh Ong Sing, Chun Che Fung</i>	586-315
segmentation and recognition of hand-written digits using ossa neural network	<i>Kyunghee Lee</i>	586-333
Automatic Haiku Generation Using VSM	<i>Martin Tsan WONG, Andy Hon Wai CHUN</i>	586-353
Emotions generation and knowledge organisation in an auto-adaptive system using shape and color recognition	<i>Camille Havas, Othalia Larue, Mickael Camus</i>	586-390
What can multimedia add to the optimization of teaching and learning at universities	<i>Eva Milkova</i>	586-636
Mobile approach, trends and technologies in modern information systems	<i>Tomas Kozel Filip Maly Antonin Slaby</i>	586-638
Graph algorithms in mutual contexts	<i>Eva Milková, Antonín Slabý</i>	586-639

13:30-14:00: Coffee Break - Light Lunch Break

ROOM A'

14:00-17:30

SESSION: Applied Software Engineering and Computational Intelligence

Chair: Eva Milkova, Itsen liu,

Classifying Fanatic Documents Using Explanations	<i>Ahmad Almonayyes</i>	586-180
The Nature of Reflections on Problem-Solving in Mobile Learning	<i>Jung-Chuan Yen & Ming-Puu Chen</i>	586-396
The effects of digital technology assisted	<i>Mei-Huang Huang, Aih-Fung Chiu, Ju-Ling Liu</i>	586-543

instruction applied in the physical-examining skill courses		
association between facial expressions and symbolic	<i>Itsen liu, Chung-Shan Sun</i>	586-559
Performance Comparison of Facial Feature Extraction Techniques in Designing Human Emotion Recognition System Using Optimal SVM	<i>Govind Kharat, Dr. Sanjay Dudul</i>	586-422
An operational system for linear feature extraction in land consolidation using high resolution imagery	<i>Rui Guo, Daoliang Li</i>	586-442
Object oriented implementation monitoring of zone type land consolidation engineering using SPOT 5 imagery	<i>Wei Su, Chao Zhang, Li Li, Yujuang Wang, Daoliang Li</i>	586-443
A multidisciplinary GIS-based approach for the potential evaluation of land consolidation projects: a model and its application	<i>Xiaochen Zou, Daoliang Li</i>	586-444
Contrast and Analysis Methods of Moderate -resolution Satellite Remote Sensing Image Classification	<i>Jinli Chen, Li Li, Daoliang Li, Chao Zhang, Yan Huang</i>	586-445
Texture Feature Extraction for Land-cover Classification of Remote Sensing Data in Land Consolidation District Using Semi-variogram	<i>Anzhi Yue, Su Wei, Daoliang Li, Chao Zhang*, Yan Huang</i>	586-446
A Super Resolution SAR Imaging Algorithm Based on Adaptive Kalman Filter for Land Consolidation	<i>Li Li, Chao Zhang, Wei Su, Daoliang Li</i>	586-447
Design and implementation of remote sensing monitoring system in land consolidation	<i>Chao Zhang, Wei Su, Yijun Jiang, Yongpeng Zhao, Daoliang Li</i>	586-448
A Web-GIS based Decision Support System for Revegetation in Coal Mine Waste Land	<i>Yingyi Chen, Daoliang Li</i>	586-450
Offline Signature Verification System using Hidden Markov Model in MATLAB Environment	<i>Sharifah mumtazah syed ahmad, asma shakil, mustafa agil muhamad balbed</i>	586-099
Automation and Management Using Intelligent Instrumentation and Field Networks in the Water Treatment Process Automation	<i>Marcelo de souza, caio fernando fontana, eduardo mario dias, sergio luiz pereira</i>	586-474
an empirical investigation for the role of facial expressions and body gestures in interactive environments	<i>Dimitrios Rigas, Nikolaos Gazepidis</i>	586-622

PROGRAM

7th WSEAS Int. Conf. on INSTRUMENTATION, MEASUREMENT, CIRCUITS and SYSTEMS (IMCAS'08)

Hangzhou, China, April 6-8, 2008

Sunday, April 6, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 1

Inverse Acoustic and Electromagnetic Obstacle Scattering: Theory and Numerics

Professor Jun Zou

Department of Mathematics
The Chinese University of Hong Kong

Abstract: In this talk we shall present some breakthroughs that have been achieved in the past few years on inverse acoustic and electromagnetic obstacle scattering problems. Both theory and numerical simulations will be discussed. This is a joint work with Dr. Hongyu Liu (Washington University, Seattle) and supported by Hong Kong RGC grants (Project 404105 and Project 404606).

Brief Biography of the Speaker:

Jun ZOU is a Professor in Department of Mathematics of The Chinese University of Hong Kong. Before taking up his current position in Hong Kong, he had worked two years (93-95) in University of California at Los Angeles (USA) as a post-doctoral fellow and a CAM Assistant Professor, worked two and a half years (91-93) in Technical University of Munich as a Visiting Assistant Professor and an Alexander

von Humboldt Research Fellow (Germany), and worked two years (89-91) in Chinese Academy of Sciences (Beijing) as an Assistant Professor. His research areas include numerical solutions of electromagnetic Maxwell systems, interface problems, ill-posed Problems and inverse Problems. He has about 70 publications in the refereed international journals.

ROOM A'

09:00-10:00

PLENARY LECTURE 2

Fractal Time Series and Tele-Traffic



Professor Ming Li

School of Information Science & Technology,
East China Normal University,
Shanghai 200241, PR. China

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Personal URL: <http://www.freewebs.com/mingli/>

Abstract: Fractal time series gains applications in various fields of sciences and technologies ranging from financial engineering to network traffic. The speech will describe several models of fractal time series, such as fractional Gaussian noise, the generalized Cauchy process, and so on. Possible applications of fractal time series to networking will be discussed.

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Ming Li, Ph.D., is a professor in electronic communications and information systems, as well as computer science at East China Normal University, PR. China. He was with the School of Computing, National University of Singapore, before joining East China Normal University in 2004. His research areas relate to applied statistics and signal processing with the recent interests in fractal time series and time-frequency analysis, computer science currently focusing on network traffic modeling and network security, and measurement & control in the aspects of error analysis and

optimal control. He has published over refereed 60 papers in international journals and international conferences in those areas.

10:00-10:30: Coffee-break

ROOM C'

10:30-13:30

SESSION: Instrumentation, Electronics, Measurement

Chair: Jun Zou, K.Kim, J. Bilbao

constraints in the design of cmos mvl circuits	<i>Avinash Gawande, Siddhartha Ladhake</i>	586-104
Design of an Wide-band FIR filter with Sharp Transition using Generalized Sampling Kernels	<i>K.J. Kim, J.B. Seo, and S.W. Nam</i>	586-150
Analytical Synthesis of Digitally Programmable Versatile-Mode High-Order OTA-Equal C Universal Filter Structures with the Minimum Number of Components	<i>Chun-Ming Chang, Jen Hung Lo, and Li-Der Jeng</i>	586-183
self checking systolic FIFO stack	<i>Huda Abugharsa, Ali Maamar</i>	586-452
Non-Linear Systems of Interfaces of Statistical Mechanics Models with a Fixed Intermediate Region	<i>Jun Wang and Bingtuan Wang</i>	586-130
Non-Linear Fluctuations of Interfaces by the Voter Model and Stopping Times	<i>Jun Wang and Qiuyuan Wang</i>	586-131
A Capacitive Flexible Weighing Sensor and Weighing Measurement	<i>Li Qing, Cheng Lu, Zhang Hongjian, Li Xiong, Shi Ge</i>	586-167
measurement of voltage flicker and implementation using FPGA	<i>Shu-chen Wang, Yu-jen Chen, Chi-jui Wu</i>	586-208
A New Study in Maintenance for Transmission Lines based on Independent Component Analysis	<i>Lijia Ren, Xiuchen Jiang, Gehao Sheng, Yi Zeng</i>	586-253
Real-time In vivo and In situ Cellular Image Processing and Characterization: Challenges and Solutions	<i>Lin Feng, Seah Hock Soon, Qian Kemao, Cheong Lee Sing</i>	586-615
A Speed and Mechanical Torque Observer Based on WLSVR	<i>Zhang Guixiang, Chen Hongwei</i>	586-564
Flexible Hardware-Software Cooperation System with HwModule Board and Co-Design Framework by ET	<i>Hiroshi Yoshikawa, Kiyoshi Akama, Hiroshi Mabuchi, Rika Satoh</i>	586-659
Universal Active Current Filter Using Single	<i>Chun-Ming Chang, Tzu-Hao Huang, Shu-Hui Tu, Chun-Li Hou, and Jiun-Wei Horng</i>	586-558
Universal Active Current Filter Using	<i>Chun-Ming Chang, Jen Hung Lo*, Li-Der</i>	586-572

Single Differential Voltage Current Conveyor	<i>Jeng*, Shu-Hui Tu, Chun-Li Hou*, and Jiun-Wei Horng*</i>	
Universal Active Current Filter Using Single Third-Generation Current Conveyor	<i>Chun-Ming Chang, Ruei-Hsuan Yang, Shu-Hui Tu, Chun-Li Hou, and Jiun-Wei Horng</i>	586-581
Universal Active Current Filter Using Single Operational Transconductance Amplifier	<i>Chun-Ming Chang, Ching-Han Chen, Shu-Hui Tu, Chun-Li Hou, and Jiun-Wei Horng</i>	586-584
Universal Active Voltage Filter Using Single Minus-Type Current Feedback Amplifier	<i>Chun-Ming Chang, Yi-Chuan Lin, Shu-Hui Tu, Chun-Li Hou, and Jiun-Wei Horng</i>	586-601
Fusion of Technology In 21st Century	<i>S.Raghavan</i>	586-305
Switched Multiband Filters for IEEE 802.11a/b/g Wlans	<i>S.Raghavan, Sion.P</i>	586-565
Planar Inverted-F Antenna for Wireless Applications	<i>Raghavan Singaravelu, Jayanthi</i>	586-525
Microstrip Patch Antenna for a Retinal Prosthesis	<i>S. Raghavan, G. Anantha Kumar</i>	586-582

Monday, April 7, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 3

Analytical Synthesis Method---A New Circuit Design Method for Arbitrary Requirements



Professor Chun-Ming Chang
Senior Member, IEEE

Dept. of Electrical Engineering, Chung Yuan Christian University,
Chung-Li, Taiwan 32023, R. O. China
E-mail: chunming@dec.ee.cycu.edu.tw

Abstract: Analytical Synthesis Method (ASM) has been presented in several papers published in the IEEE Transactions on Circuits and Systems since 2003. It is one of the powerful design methods in the field of analog circuit design. It is the method using a succession of innovative algebra manipulation operations to decompose a complicated transfer function representing the relationship between the output and the input signals of a design project into many simple equations feasible by using the corresponding simple sub-circuitries. The simple sub-circuitries can be constructed by the desired configuration of the element such as the single-ended-input operational transconductance amplifiers (OTAs) and the grounded capacitors, both of which are used for absorbing and reducing the shunt parasitic capacitance and lead to have more precise output responses. In addition to this, the ASM can control the number of the terms in the complicated decomposition process such that the number of both active and passive components used in the circuit is the least compared to the previously reported ones. Then, the ASM is the only one method which can simultaneously achieve the three important criteria for the design of OTA-C circuits without trade-offs.

Due to the flexibility of the ASM, the simple sub-circuitries used in the circuit design can be changed and chosen according to different necessities for the target of the circuit design. For example, if the reduction of the number of the active and passive components used in the circuit is more important than the type of the element configurations like single-ended-input/differential-input OTAs and grounded/floating capacitors due to the consideration about power consumption, chip area, noise, and total parasitics....., etc., the minimum component OTA-C circuit can also be investigated and developed successfully using the ASMs. The fully flexible characteristic and the real demonstration in the literature of the ASM may make it be one of the most prospective methods in the field of analog circuit design in the near future.

ROOM A'

09:00-10:00

PLENARY LECTURE 4

**Real-time In vivo and In situ Cellular Image Processing and
Characterization: Challenges and Solutions**



Associate Professor LIN Feng

Div of Information Systems
Programme Director, MSc(DMT)
Nanyang Technological University
School of Computer Engineering
N4-2A-05, Nanyang Avenue
Singapore 639798

Tel: (65) 67906184 Fax: (65) 67926559
E-mail: asflin@ntu.edu.sg

Abstract: We study the feasibility of 3D virtual histology through real-time in vivo and in situ cellular imaging. A prototype system has been developed based on photodynamic fluorescence signals, confocal endomicroscopy, and FPGA image processing and characterization computing. Experiments in its clinical applications have been conducted, mainly for diagnosis of early-stage mucous cancer. With the fine-grained parallel imaging programs mapped on the FPGA, a stream of focused optical sections of microstructures in the subsurface layers up to 300 μ m in depth, can be processed online and the extracted features can be visualized seamlessly with the endomicroscopy settings.

Brief Biography of the Speaker:

Lin Feng, PhD, is an Associate Professor in School of Computer Engineering, Nanyang Technological University, Singapore. His research interests include bioinformatics, bioimaging and visualization, and high-performance computing. He has published about one hundred technical papers in journals, conferences and books, and served in several editorial boards and conference organization committees.

10:00-10:30: Coffee-break

Tuesday, April 8, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 5

Multimedia system – 3d Interactive Model Web (3DIMW)



Professor Rong-Jyue Fang

Department of Information Management,
College of Management, STUT,
Taiwan

E-mail: fang@nknucc.nknu.edu.tw

Abstract: Based on the functions of theoretical foundations and related literature analysis, study group develop a multimedia system named: 3D Interactive Model Web (3DIMW). The original purpose of research work targeting on constructing a learning platform for three-dimensional computer animation. The feasibility was based on the evaluated functions of 3-D animation techniques and the prototype constructed. Platform derived from three-dimensional computer animation technique associated with ASP.NET and SQL Database.

After the completion of platform, consequent procedures were applied to examine the usefulness of it. Graphic science and drawing course was the object comes up with first choice. Later a Turbulence Phenomena simulation and nano sized physical representation showed that it is a good tool for learning complicated image description and maneuvering sophisticated micro-devices.

Brief Biography of the Speaker:

Dr. Rong-Jyue Fang – 1984 graduated from The Pennsylvania State University IED Department PhD program. He had been Director of Computation Center, Department Chair of Industrial Technology, and Dean of R&D Office in National Kaohsiung Normal University, later, been a President of National Taitung (East Taiwan) University. In 2005, he moves to Southern Taiwan University of Technology as a Chair Professor.

He concentrates his research on multimedia hardware, software, and system development for more than twenty years and gain more than twenty years financial support from Taiwan's National Science Council. In recent years, he works mostly on 3D Interactive Model Web.

09:00-09:30: Coffee-break

ROOM B'

14:30-17:30

SESSION: Circuits & Systems

Chair: Lijia Ren, Xiuchen Jiang, Wu Bo, Gehao Sheng

Study on Dynamic Increasing the Capacity of Transmission Line	<i>Lijia Ren, Xiuchen Jiang, Wu Bo, Gehao Sheng</i>	586-254
Research on the SPLL based single phase voltage sag detection technique	<i>Xie Yue Chen Le Sun Jian Gong Xu</i>	586-268
Hilbert-Huang Transform Based Time-Frequency Distribution and Comparisons with Other Three	<i>Ming Li, Xue-Kang Gu, Shen-Shen Yang</i>	586-286
An EMD Based Simulation of Fractional Gaussian Noise	<i>Peiwei Shan, Ming Li</i>	586-325
The geometry of Gibbs-Duhem-Pfaff thermochemical systems	<i>Cristina Stamin, Constantin Udriste</i>	586-377
A Class of qD Continuous-Time Time-Varying Acausal Systems	<i>Valeriu Prepelita</i>	586-379
The Method of Correction for Industrial Digital Radiographic Testing System	<i>Yaoyu Cheng; Yan Hu; Yu Wang; Yanhua Liu</i>	586-533
Crossover operation engine considering character inheritance	<i>Masaya Yoshikawa, Kentarou Otsuka, Hidekazu Terai</i>	586-554
Closed-Loop DMM Calibration	<i>Vladislav Slavov, Tasho Tashev</i>	586-209
The Efficient Search Method for High Risk Events of Power Systems Caused by Natural Disasters	<i>Tetsushi Miki</i>	586-540
study of surface acoustic waves under periodic grating structures	<i>Cheng-Liang Hsu, Chi-Yen Shen, Ming-Yau Su and Rume-Tze Tsai</i>	586-553
A Complete Electrical Equivalent Circuit Model	<i>Mohammad Amin, Pradip Peter Dey And Hassan Badkoobehi</i>	586-523
The threshold voltage of MOSFET and its influence on digital circuits	<i>Milaim Zabeli, Nebi Caka, Myzafere Limani, Qamil Kabashi</i>	586-701
an efficient hardware design of a system for highly nonstationary signals filtering	<i>Veselin N. Ivanovic, Srdjan Jovanovski</i>	586-557
Linear Time Varying Systems: Theory and Identification of Model Parameters	<i>Kyarash Shahriari, Stanislaw Tarasiewicz, Olivier Adrot</i>	586-575
Development of a Modified Diffusion Model of High Efficient Pumps Considering Rebate Effects	<i>Sungwook Hwang, Jongryul Won, Junghoon Kim, Byungha Le</i>	586-620
A new arrangement of AC/DC converters for high direct-current applications	<i>Francesco Muzi, Luigi Passacantando</i>	586-643

Analytical approach for testing linking-with-light circuits and systems	<i>H J Kadim</i>	586-624
An Efficient Low-Complexity Joint Multi-User Power Control and Partial Crosstalk Cancellation in xDSL Systems	<i>Mohsen Maesoumi, Mohammad-ali Masnadi-shirazi</i>	586-408
Node fault robustness for heterogeneous dynamic sensor networks	<i>Simone Gabriele, Paolo Di Giamberardino</i>	586-710
In vivo and In situ Cellular Image Processing and Characterization: Challenges and Solutions	<i>lin Feng, Seah Hock Soon, Qian Kemao, Cheong Lee Sing</i>	586-669

PROGRAM

8th WSEAS Int. Conf. on MULTIMEDIA SYSTEMS & SIGNAL PROCESSING (MUSP '08)

Hangzhou, China, April 6-8, 2008

Sunday, April 6, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 1

Inverse Acoustic and Electromagnetic Obstacle Scattering: Theory and Numerics

Professor Jun Zou

Department of Mathematics
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Abstract: In this talk we shall present some breakthroughs that have been achieved in the past few years on inverse acoustic and electromagnetic obstacle scattering problems. Both theory and numerical simulations will be discussed. This is a joint work with Dr. Hongyu Liu (Washington University, Seattle) and supported by Hong Kong RGC grants (Project 404105 and Project 404606).

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ROOM A'

09:00-10:00

PLENARY LECTURE 2

Fractal Time Series and Tele-Traffic



Professor Ming Li

School of Information Science & Technology,
East China Normal University,
Shanghai 200241, PR. China

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optimal control. He has published over refereed 60 papers in international journals and international conferences in those areas.

10:00-10:30: Coffee-break

ROOM B'

10:30-13:30

SESSION: Multimedia Systems & e-Learning I

Chair: Eunm-Nam Ko, Hironori Sasaki, Yuka Kawasaki

effectiveness of highlighting as a prompt in text reading	<i>Yuka Kawasaki, Hironori Sasaki, Haruhisa Yamaguchi, Yumi Yamaguchi</i>	586-603
effectiveness of group moderation program for developing	<i>Hironori Sasaki, Yuka Kawasaki, Haruhisa Yamaguchi, Yumi Yamaguchi</i>	586-642
A Comparative Study of Teacher Training Formats Blended Training vs. Face-to-Face Training	<i>Hironori Sasaki, Yuka Kawasaki</i>	586-070
Virtual Campus	<i>Baki Koyuncu, Pınar Kocabaşoğlu</i>	586-313
TCP/IP suite Significant Enhancement for 4G Mobile Multimedia Internet Networks	<i>Abdullah Gani, Xichun Li, Lina Yang</i>	586-334
Modified MUF and EDF Algorithms for Overloaded Soft Real Time Systems	<i>Sandeep Agrawal, Dr Pankaj Bhatt and Prof Dr K K Shukla</i>	586-470
A Web Based Multimedia CSCW with a Whiteboard and Error Control Agent running on Home Network Environment	<i>Eunm-Nam Ko</i>	586-535
Fast Motion Estimation using Semi-Hierarchical Approach for the Dirac Video Codec	<i>M. Tun, K. K. Loo, J. Cosmas</i>	586-419
Implementation of a Teaching Training Method in E-Learning Information System	<i>Huay Chang</i>	586-589
Using Internet Multimedia to Promote the Local Business:A Case Study of Alishan	<i>Tingsheng Weng</i>	586-612

13:30-14:00: Coffee Break - Light Lunch Break

ROOM B'

14:00-17:30

SESSION: Signal Processing I

Chair: Salama Meghriche , Jakub Gałka, Bartosz Ziólko

Measures on wavelet segmentation of speech	<i>Michał Dyrek, Jakub Gałka, Michał Dyrek, Jakub Gałka</i>	586-133
Study of performance evaluation methods for non-uniform speech segmentation	<i>Jakub Gałka, Bartosz Ziólko</i>	586-134
A Study on Fault Diagnosis of Induction Motor using Neural-Wavelet	<i>Jung-Ho Shin, Hye-Youn Lim, Jing-Chen Qian, Dae-Seong Kang</i>	586-144
Efficient Artificial Hippocampus Algorithm for Biometric Authentication System	<i>Ming-Shou An, Jang-Hui Kim, Dae-Seong Kang</i>	586-146
Time-Frequency Distribution of Encountered Waves Using Hilbert-Huang Transform	<i>Ming Li, Xue-Kang Gu, Pei-Wei Shan</i>	586-160
A Practical Method for Weak Stationarity Test of Network Traffic with Long-Range Dependence	<i>Ming Li, Yun-Yun Zhang, Wei Zhao</i>	586-161
A CMOS Multi-band Low Noise Amplifier Using High-Q Active Inductors	<i>Jenn-Tzer Yang, Yuan-Hao Lee, Ming-Jeui Wu, Yi-Yuan Huang, and Yu-Min Mu</i>	586-204
A 2.4GHz Low Power Highly Linear Mixer for Direct-Conversion Receivers	<i>Jenn-Tzer Yang, Yu-Min Mu, Ming-Jeui Wu, Yuan-Hao Lee, and Yi-Yuan Huang</i>	586-205
Designs of CMOS Multi-band Voltage-Controlled Oscillator Using Active Inductors	<i>Jenn-tzer Yang, Yi-yuan Huang, Yuan-hao Lee and Yu-min Mu</i>	586-207
two neural networks architectures for detecting avb	<i>Salama Meghriche , Mohammed Boulemden , Amer Draa</i>	586-343
Inquiring Training and Employment Offers on the Web Using Web Services	<i>Nikolaos V. Karadimas, Nikolaos P. Papastamatiou</i>	586-661
Application of Wavelet Decomposition and Gradient Variation in Texture Image Retrieval	<i>Kuo-An Wang, Hsuan-Hung Lin, Po-Chou Chan, Shih-Hsu Chang, Yung-Fu Chen</i>	586-550

Monday, April 7, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 3

Analytical Synthesis Method---A New Circuit Design Method for Arbitrary Requirements



Professor Chun-Ming Chang

Senior Member, IEEE

Dept. of Electrical Engineering, Chung Yuan Christian University,

Chung-Li, Taiwan 32023, R. O. China

E-mail: chunming@dec.ee.cycu.edu.tw

Abstract: Analytical Synthesis Method (ASM) has been presented in several papers published in the IEEE Transactions on Circuits and Systems since 2003. It is one of the powerful design methods in the field of analog circuit design. It is the method using a succession of innovative algebra manipulation operations to decompose a complicated transfer function representing the relationship between the output and the input signals of a design project into many simple equations feasible by using the corresponding simple sub-circuitries. The simple sub-circuitries can be constructed by the desired configuration of the element such as the single-ended-input operational transconductance amplifiers (OTAs) and the grounded capacitors, both of which are used for absorbing and reducing the shunt parasitic capacitance and lead to have more precise output responses. In addition to this, the ASM can control the number of the terms in the complicated decomposition process such that the number of both active and passive components used in the circuit is the least compared to the previously reported ones. Then, the ASM is the only one method which can simultaneously achieve the three important criteria for the design of OTA-C circuits without trade-offs.

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ROOM A'

09:00-10:00

PLENARY LECTURE 4

Real-time In vivo and In situ Cellular Image Processing and Characterization: Challenges and Solutions



Associate Professor LIN Feng

Div of Information Systems
Programme Director, MSc(DMT)
Nanyang Technological University
School of Computer Engineering
N4-2A-05, Nanyang Avenue
Singapore 639798

Tel: (65) 67906184 Fax: (65) 67926559

E-mail: asflin@ntu.edu.sg

Abstract: We study the feasibility of 3D virtual histology through real-time in vivo and in situ cellular imaging. A prototype system has been developed based on photodynamic fluorescence signals, confocal endomicroscopy, and FPGA image processing and characterization computing. Experiments in its clinical applications have been conducted, mainly for diagnosis of early-stage mucous cancer. With the fine-grained parallel imaging programs mapped on the FPGA, a stream of focused optical sections of microstructures in the subsurface layers up to 300 μ m in depth, can be processed online and the extracted features can be visualized seamlessly with the endomicroscopy settings.

Brief Biography of the Speaker:

Lin Feng, PhD, is an Associate Professor in School of Computer Engineering, Nanyang Technological University, Singapore. His research interests include bioinformatics, bioimaging and visualization, and high-performance computing. He has published about one hundred technical papers in journals, conferences and

books, and served in several editorial boards and conference organization committees.

10:00-10:30: Coffee-break

ROOM B'

10:30-13:30

SESSION: Signal Processing II

Chair: Liu Wei, Rosli Salleh, Xichun Li

poincare based singularities detection algorithm in fingerprint classification	<i>Liu Wei</i>	586-212
Statistical Analysis On Ultrasonic Signals Measured On Automobile Engine Block	<i>M. Z. Nuawi, S. Abdullah, A.R.Ismail, M. K. Zakaria, F. Lamin and M. F. H. Hussin</i>	586-217
Experimental Analysis of Pattern Similarity between Bessel Kernel and Born-Jordan Kernel	<i>Ming Li, Xue-Kang Gu, Wei Zhao</i>	586-285
Adaptive Quantization of Wavelet Packet Coefficients for Image Watermarking	<i>Chi-Man Pun, I-Kuan Kong</i>	586-456
Wireless Multimedia Sensor Network with an Efficient Distributed Video Coding for Multimedia Broadcasting	<i>Zhuo Xue, K.K.Loo, John Cosmas, P.Y. Yip</i>	586-406
Error Resilient Wavelet Video Transmission with Priority area Protection using Wyner-Ziv Coding	<i>Zhuo Xue, K.K. Loo, J. Cosmas, P.Y. Yip</i>	586-407
Principal Components-Minimum Variance Based Technique for High Resolution Detection of Concealed Object	<i>Mujahid Al-azzo</i>	586-534
Generation of Quinquenary Pulse Compression Sequences using FPGA	<i>N.Balaji, K.Subba Rao, M.Srinivasa Rao, V.Rajitha</i>	586-454
Adaptive BCH coding Performance analysis	<i>Lamia Chaari, Mohamed Fourati, Nouri Masmoudi, Lotfi Kamoun</i>	586-348
Radio Frequency Convergence Protocol for 4G Networks	<i>Rosli Salleh, Xichun Li</i>	586-518
Suppression of Noise in the ECG Signal using Digital IIR Filter	<i>Mahesh S. Chavan, R.A. Agarwala, M.D. Uplane</i>	586-397

13:30-14:00: Coffee Break - Light Lunch Break

Tuesday, April 8, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 5

Multimedia system – 3d Interactive Model Web (3DIMW)



Professor Rong-Jyue Fang

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Abstract: Based on the functions of theoretical foundations and related literature analysis, study group develop a multimedia system named: 3D Interactive Model Web (3DIMW). The original purpose of research work targeting on constructing a learning platform for three-dimensional computer animation. The feasibility was based on the evaluated functions of 3-D animation techniques and the prototype constructed. Platform derived from three-dimensional computer animation technique associated with ASP.NET and SQL Database.

After the completion of platform, consequent procedures were applied to examine the usefulness of it. Graphic science and drawing course was the object comes up with first choice. Later a Turbulence Phenomena simulation and nano sized physical representation showed that it is a good tool for learning complicated image description and maneuvering sophisticated micro-devices.

Brief Biography of the Speaker:

Dr. Rong-Jyue Fang – 1984 graduated from The Pennsylvania State University IED Department PhD program. He had been Director of Computation Center, Department Chair of Industrial Technology, and Dean of R&D Office in National Kaohsiung Normal University, later, been a President of National Taitung (East Taiwan) University. In 2005, he moves to Southern Taiwan University of Technology as a Chair Professor.

He concentrates his research on multimedia hardware, software, and system development for more than twenty years and gain more than twenty years financial support from Taiwan's National Science Council. In recent years, he works mostly on 3D Interactive Model Web.

09:00-09:30: Coffee-break

ROOM B'

09:30-13:30

SESSION: Multimedia Systems & e-Learning II

Chair: *Rong-Jyue Fang*

An Analytical Study of E-learning on New Thinking Direction	<i>Rong-Jyue Fang, Yao-Ming Chu, Hung-Jen Yang, Hua- Lin Tsai, Chi -Jen Lee, Pofen Wang</i>	586-220
The Application of Blog and Benchmarking-	<i>Rong-Jyue Fang, Hung -Jen Yang, Yao-Ming Chu, Chi -Jen Lee, Hua- Lin Tsai, Dai-Hua Li</i>	586-221
An Study to increase the Critical Thinking	<i>Rong-Jyue Fang , Chien-Chung Lin , Hung - Jen Yang, Chi -Jen Lee, Hua- Lin Tsai , Tien-Sheng Tsai</i>	586-222
A Study of Integrating Functions of Mobile Learning	<i>Rong-Jyue Fang, Chien-Chin E, Jia-Rong Wen ,Hung- Jen Yang, Chi-Jen Lee, Hua-Lin Tsai</i>	586-223
M-Learning And Knowledge Management in the Grade 1-9 Curriculum	<i>Wen-Jiuh Chiang, Rong-Jyue Fang, Zhen-Gang Chen, Hua- Lin Tsai, Chiao-Pin Lin5,Chien-Chin E</i>	586-224
Exploration of E-Learning of Science & Technology Integration in	<i>Rong-Jyue Fang, Hung -Jen Yang, Hua- Lin Tsai, Chi -Jen Lee, Pofen Wang , Shu-Hui Hsieh</i>	586-225
A Study of Raising Self-learning Ability by Network in Science and Technology Curriculum	<i>Rong-Jyue Fang, Wen-Jiuh Chiung, Hung -Jen Yang , Chi -Jen Lee, Hua- Lin Tsai, Jia-Rong Wen</i>	586-226
A Case Study of Online Project-based Mobile Learning- Beer King	<i>Yi-hui liu, shi-er lou, rong-jyue fang, chung-ping lee</i>	586-227
Using On-Line Multimedia with Mobile Device in the 3DIMW	<i>Rong-jyue fang, shih-fann chao, yin-shan jong</i>	586-228
Applying UML 2.0 to Design a Botanical Document Warehouse	<i>Rong-Jyue Fang, Howard Lo, Chien-chung Lin, Yu-Chen Weng</i>	586-229
The Technology Acceptance Model with Online Learning for the Principals in Elementary Schools and Junior High schools	<i>Rong-Jyue Fang, Yao-ming Chu, Chung-Ping Lee, I-Hui Liu,</i>	586-230
Design and Validate of a Scale Anchoring Based Test Items Library	<i>Yi-Hsing Chang, Shih-Feng Hsu, Rong-Jyue Fang</i>	586-231

A Power-Efficient Data Gathering Scheme on Grid Sensor Networks	<i>Chow-Sing Lin Chia-Nan Huang Rong-Jyue Fang</i>	586-232
The digital curriculum design and implement of teacher's professional growth	<i>Rong-Jyue Fang, Shu-Hui Wang, Tz-Yauw Lin, Hua- Lin Tsai</i>	586-233
Analysis of an Education Knowledge Management Website	<i>Rong-Jyue Fang, Sheng-Jen Yang, Hua- Lin Tsai, Kuo-Cheng Wu</i>	586-234
A Study of Educational Functions of Mobile Learning	<i>Rong-Jyue Fang, Sheng-Jen Yang, Hua- Lin Tsai, Kuo-Cheng Wu,</i>	586-235
Integrating KM Learning Activities into Business Management	<i>Integrating KM Learning Activities into Business Management</i>	586-236
A Theoretical Framework on the Perception of Web-based Self-directed Learning Environment	<i>Rong-jyue fang, Yung-Sheng Chang, Chien-Chung Lin, Hua-Lin Tsai, Chi -Jen Lee, Pofen Wang, Dai-Hua Li</i>	586-237
The Challenge of a primer educator in Project-Based Learning Model	<i>Rong-jyue Fang, Hung -Jen Yang, Tsai Lih-Jiuan ,Hua- Lin Tsai,</i>	586-238
Mobility Behind e-Learning Behavior	<i>Hsieh-Hua Yang, Jui-Chen Yu, Hung-Jen Yang</i>	586-239
Developing a Measuring Scale for Students' Mobile Learning	<i>Chin-Mou Cheng</i>	586-240

PROGRAM

8th WSEAS Int. Conf. on ROBOTICS, CONTROL and MANUFACTURING TECHNOLOGY (ROCOM'08)

Hangzhou, China, April 6-8, 2008

Sunday, April 6, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 1

Inverse Acoustic and Electromagnetic Obstacle Scattering: Theory and Numerics

Professor Jun Zou

Department of Mathematics
The Chinese University of Hong Kong

Abstract: In this talk we shall present some breakthroughs that have been achieved in the past few years on inverse acoustic and electromagnetic obstacle scattering problems. Both theory and numerical simulations will be discussed. This is a joint work with Dr. Hongyu Liu (Washington University, Seattle) and supported by Hong Kong RGC grants (Project 404105 and Project 404606).

Brief Biography of the Speaker:

Jun ZOU is a Professor in Department of Mathematics of The Chinese University of Hong Kong. Before taking up his current position in Hong Kong, he had worked two years (93-95) in University of California at Los Angeles (USA) as a post-doctoral fellow and a CAM Assistant Professor, worked two and a half years (91-93) in Technical University of Munich as a Visiting Assistant Professor and an Alexander

von Humboldt Research Fellow (Germany), and worked two years (89-91) in Chinese Academy of Sciences (Beijing) as an Assistant Professor. His research areas include numerical solutions of electromagnetic Maxwell systems, interface problems, ill-posed Problems and inverse Problems. He has about 70 publications in the refereed international journals.

ROOM A'

09:00-10:00

PLENARY LECTURE 2

Fractal Time Series and Tele-Traffic



Professor Ming Li

School of Information Science & Technology,
East China Normal University,
Shanghai 200241, PR. China

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Tel: (Office) (86) (21) 54345193, Fax: (86) (21) 54345119

Business URL: [http://www.ee.ecnu.edu.cn/teachers/mli/js_lm\(Eng\).htm](http://www.ee.ecnu.edu.cn/teachers/mli/js_lm(Eng).htm)

Personal URL: <http://www.freewebs.com/mingli/>

Abstract: Fractal time series gains applications in various fields of sciences and technologies ranging from financial engineering to network traffic. The speech will describe several models of fractal time series, such as fractional Gaussian noise, the generalized Cauchy process, and so on. Possible applications of fractal time series to networking will be discussed.

Brief Biography of the Speaker:

Ming Li, Ph.D., is a professor in electronic communications and information systems, as well as computer science at East China Normal University, PR. China. He was with the School of Computing, National University of Singapore, before joining East China Normal University in 2004. His research areas relate to applied statistics and signal processing with the recent interests in fractal time series and time-frequency analysis, computer science currently focusing on network traffic modeling and network security, and measurement & control in the aspects of error analysis and

optimal control. He has published over refereed 60 papers in international journals and international conferences in those areas.

10:00-10:30: Coffee-break

ROOM C'

14:00-17:30

SESSION: Robotics and Control

Chair: Wei Dong, Lu Yong-Jun;Chu Lei-Min

Text Region Extraction Algorithm On Steel Making Process	<i>Sunghoo Choi , Jong pil Yun, Keunhwi Koo, Jonghyun Choi, Sang woo Kim</i>	586-163
gasbag polishing trajectory planning for free-form surface mould on machine vision	<i>Shiming Ji, Yindong Zhang, Li Zhang, Mingsheng Jin, Yaqi Sheng</i>	586-196
The Repeatability Analysis of Industrial Robot under Loaded Conditions and Various Distances	<i>Ahmad Rasdan Ismail, Azmi Hassan, Syamimi Syamsuddin, Mohd Zaki Nuawi, Shahrum Abdullah, Hairunnisa Mohamad Ibrahim</i>	586-215
An investigation of temperature effect on microstructure and mechanical properties of aluminum (A360) processed by thixoforging	<i>Mohammad kazem Besharaty, Keivan Davami, Mehrdad Shaygan pour</i>	586-241
Electrical Characteristic Modeling and Simulation of PEMFC Based on Least-squares Parameter Estimation	<i>Wei Dong, Lu Yong-Jun;Chu Lei-Min</i>	586-306
study of collaborative design system based on HOOPS/NET	<i>Guolin Duan, Xuan Liu, Jin Cai</i>	586-514
An LMI Approach To Computation State Feedback Control In The Linear Discrete-Time System With Limited Input	<i>Amirmasoud Jafari</i>	586-103
Revisit Controlled Lagrangians for Spherical Inverted Pendulum	<i>Guangyu liu, subhash challa, long-guang yu</i>	586-164
About a Differential Equation Characterizing Gas Volume Control	<i>Wacker h.d. Boercsoek j.</i>	586-613

Monday, April 7, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 3

Analytical Synthesis Method---A New Circuit Design Method for Arbitrary Requirements



Professor Chun-Ming Chang

Senior Member, IEEE

Dept. of Electrical Engineering, Chung Yuan Christian University,

Chung-Li, Taiwan 32023, R. O. China

E-mail: chunming@dec.ee.cycu.edu.tw

Abstract: Analytical Synthesis Method (ASM) has been presented in several papers published in the IEEE Transactions on Circuits and Systems since 2003. It is one of the powerful design methods in the field of analog circuit design. It is the method using a succession of innovative algebra manipulation operations to decompose a complicated transfer function representing the relationship between the output and the input signals of a design project into many simple equations feasible by using the corresponding simple sub-circuitries. The simple sub-circuitries can be constructed by the desired configuration of the element such as the single-ended-input operational transconductance amplifiers (OTAs) and the grounded capacitors, both of which are used for absorbing and reducing the shunt parasitic capacitance and lead to have more precise output responses. In addition to this, the ASM can control the number of the terms in the complicated decomposition process such that the number of both active and passive components used in the circuit is the least compared to the previously reported ones. Then, the ASM is the only one method which can simultaneously achieve the three important criteria for the design of OTA-C circuits without trade-offs.

Due to the flexibility of the ASM, the simple sub-circuitries used in the circuit design can be changed and chosen according to different necessities for the target of the circuit design. For example, if the reduction of the number of the active and passive components used in the circuit is more important than the type of the element configurations like single-ended-input/differential-input OTAs and grounded/floating capacitors due to the consideration about power consumption, chip area, noise, and total parasitics....., etc., the minimum component OTA-C circuit can also be investigated and developed successfully using the ASMs. The fully flexible characteristic and the real demonstration in the literature of the ASM may make it be

one of the most prospective methods in the field of analog circuit design in the near future.

ROOM A'

09:00-10:00

PLENARY LECTURE 4

Real-time In vivo and In situ Cellular Image Processing and Characterization: Challenges and Solutions



Associate Professor LIN Feng

Div of Information Systems
Programme Director, MSc(DMT)
Nanyang Technological University
School of Computer Engineering
N4-2A-05, Nanyang Avenue
Singapore 639798

Tel: (65) 67906184 Fax: (65) 67926559

E-mail: asflin@ntu.edu.sg

Abstract: We study the feasibility of 3D virtual histology through real-time in vivo and in situ cellular imaging. A prototype system has been developed based on photodynamic fluorescence signals, confocal endomicroscopy, and FPGA image processing and characterization computing. Experiments in its clinical applications have been conducted, mainly for diagnosis of early-stage mucous cancer. With the fine-grained parallel imaging programs mapped on the FPGA, a stream of focused optical sections of microstructures in the subsurface layers up to 300 μ m in depth, can be processed online and the extracted features can be visualized seamlessly with the endomicroscopy settings.

Brief Biography of the Speaker:

Lin Feng, PhD, is an Associate Professor in School of Computer Engineering, Nanyang Technological University, Singapore. His research interests include

bioinformatics, bioimaging and visualization, and high-performance computing. He has published about one hundred technical papers in journals, conferences and books, and served in several editorial boards and conference organization committees.

10:00-10:30: Coffee-break

Tuesday, April 8, 2008

ROOM A'

08:00-09:00

PLENARY LECTURE 5

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09:00-09:30: Coffee-break

ROOM C'

09:30-13:30

SESSION: Applied Manufacturing and Control

Chair: *Jean J. Saade, Jiang Jing, Yi Xie*

Analysis and Research on friction-free cylinder of modal testing suspension system	<i>Sun Jianhui, Shan Xiaohang, Zhang Xiujun, Zhang Li, Gao Zhisong, Xie Mingfeng, Wang Qingwu</i>	586-188
optimal sliding-mode control scheme for the position tracking servo control system	<i>Jiang Jing</i>	586-189
Proportional Integral Sliding Mode Control for the Half-Car Active Suspension System with Hydraulic Actuator	<i>YM Sam, NM Suaib and JHS Osman</i>	586-190
Integrating UML and GPSS for Business Process Modeling and Simulation	<i>Yi Xie</i>	586-197
research on the metamorphosis of dynamic abrasive particles field via inconsistent curvature contact based on image processing	<i>Shiming Ji, Yaqi shen, Li Zhang, Mingsheng Jin, Yindong Zhang</i>	586-199
synthesis of explicit model predictive control system with feasible region shrinking	<i>Zhang Ju and Wang Wanliang</i>	586-218
An algorithm for polyquadratic stabilization of a multi-inputs multimodel with quantified commands: D-stability	<i>Mongi Besbes, Elyes Maherzil, Mahmoud Ellouze and Radhi Mhiri</i>	586-324

approach Application to a drying blower		
Simultaneous Static Output-Feedback Stabilization for a Collection of Interval Time-Delay Systems via LMI Approach	<i>Yuan-Chang Chang, Song-Shyong Chen and Jen-Shu Hsiao</i>	586-460
Fuzzy Inference-Based Control Approach for Thermal-Visual Comfort and Air Quality in Indoor Environments	<i>Jean J. Saade, Ali H. Ramadan</i>	586-705
Control-Oriented Approaches to Dynamic Decision Making	<i>S.Y. Xu, Z.P. Jiang, L. Huang, D.W. Repperger</i>	586-281

13:30-14:00: Coffee Break - Light Lunch Break

ROOM C'

14:00-17:30

SESSION: Robotics Systems and Control

Chair: *Yuhong Liu,*

optimal design of the linear delta robot for prescribed cuboid dexterous workspace based on performance chart	<i>Qiaoling Yuan, Shiming Ji, Zhongfei Wang, Guan Wang, Yuehua Wan and Li Zhan</i>	586-187
kinematics analysis of a novel 2-dof parallel fully decoupled spherical mechanism	<i>yunxia qu, weimin li, anping xu, shuncheng fan</i>	586-465
research on mobile manipulator tip-over stability and compensation	<i>Yuhong Liu, Xianchun Meng, Minglu Zhang</i>	586-469
Design and Implementation of DC Motor Speed Controller Using Fuzzy-Adaptive Controllers	<i>Hengameh kojooyan jafari</i>	586-090
modeling of solidification conditions and melt	<i>Keivan davami, mohammad kazem besharaty givi</i>	586-198
An investigation of temperature effect on microstructure and mechanical properties of aluminum (A360) processed by thixoforging	<i>Mohammad kazem besharaty, keivan davami, mehrdad shaygan pour</i>	586-241
Pid Control of a Biped Robot	<i>Liaquat ali khan, juwairiyah naeem, umar khan, s. Zahid hussain</i>	586-715
Reinforcement Learning for Appearance Based Visual Servoing in Robotic Manipulation	<i>Mar khan, liaquat ali khan, s. Zahid hussain</i>	586-716