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Part I Conference Schedule

December 12 Afternoon, 2009

14: 00-22: 00	Registration	<p>The International Asia Pacific Convention Center & HNA Resort Sanya</p> <p>亚太国际会议中 心,三亚</p>
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December 13 Morning, 2009

08: 30 - 09: 00	Open Ceremony	The International Asia Pacific Convention Center & HNA Resort Sanya
09: 00 - 09: 30	Photo	
09: 30 -10: 30	Keynote Speech 1 Speaker: IEEE and IET Fellow Prof. Chin-Chen Chang	
10: 30- 11: 30	Keynote Speech 2 Speaker: IEEE Fellow Prof. Jun Wang	

12: 00-13: 30	Buffet Lunch	The International Asia Pacific Convention Center & HNA Resort Sanya
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December 13 Afternoon, 2009

14: 00 - 16: 00	FITME 2009 Oral Session 1 Chair:	Room 1 The International Asia Pacific Convention Center & HNA Resort Sanya
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16: 00 - 18: 00	ETT 2009 Oral Session 2 Chair:	Room 1 The International Asia Pacific Convention Center & HNA Resort Sanya
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18: 30-19: 30	Welcome Banquet	The International Asia Pacific Convention Center & HNA Resort Sanya
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December 14 Morning, 2009

08: 30 - 09: 30	Keynote Speech 3 Speaker: IEEE Fellow Prof. Gary G. Yen, Oklahoma State University, USA	The International Asia Pacific Convention Center & HNA Resort Sanya
09: 30 - 11: 30	FBIE 2009 and ICHCC 2009 Oral Session 4 Chair:	The International Asia Pacific Convention Center & HNA Resort Sanya

12: 00-13: 00	Buffet Lunch	The International Asia Pacific Convention Center & HNA Resort Sanya
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Part II Keynote Speeches

Keynote Speech 1: A Data Hiding Method for Text Documents Using Multiple-Base Encoding



Speaker: Prof. Chin-Chen Chang (Taiwan), Professor, IEEE and IET Fellow
Department of Information Engineering and Computer Science
Feng Chia University
<http://www.cs.ccu.edu.tw/~ccc/>
Research Fields: Database Design, E-Business Security,
Electronic Imaging Techniques, and Computer Cryptography

Abstract:

In this research, we propose a novel data hiding method for text document using multiple-base encoding. The combination of the repeated words in the cover-text is used to compute multiple-base quotas. Then the secret data will be transformed into the expression of multiple-base expressions. Finally, some locations of the repeated words will be shifted to generate the stego-text. According to the experimental results, our method is flexible for most documents and can slightly modify the inter-word space. Moreover, our method possesses superiority to the others in terms of embedding capacity and imperceptibility in the text data hiding.

Biography:

Professor C.C. Chang was born in Taichung, Taiwan on Nov. 12th, 1954. He obtained his Ph.D. degree in computer engineering from National Chiao Tung University. He's first degree is Bachelor of Science in Applied Mathematics and master degree is Master of Science in computer and decision sciences. Both were awarded in National Tsing Hua University. Dr. Chang served in National Chung Cheng University from 1989 to 2005. His current title is Chair Professor in Department of Information Engineering and Computer Science, Feng Chia University, from Feb. 2005. Prior to joining Feng Chia University, Professor Chang was an associate professor in Chiao Tung University, professor in National Chung Hsing University, chair professor in National Chung Cheng University. He had also been Visiting Researcher and Visiting Scientist to Tokyo University and Kyoto University, Japan. During his service in Chung Cheng, Professor Chang served as Chairman of the Institute of Computer Science and Information Engineering, Dean of College of Engineering, Provost and then Acting President of Chung Cheng University and Director of Advisory Office in Ministry of Education, Taiwan.

Professor Chang's specialties include, but not limited to, data engineering, database systems, and computer cryptography and information security. A researcher of acclaimed and distinguished services and contributions to his country and advancing human knowledge in the field of information science, Professor Chang has won many research awards and honorary positions by and in prestigious organizations both nationally and internationally. He is currently a Fellow of IEEE and a Fellow of IEE, UK. And since his early years of career development, he consecutively won Outstanding Youth Award of the R. O. C., Outstanding Talent in Information Sciences of the R. O. C., AceR Dragon Award of the Ten Most Outstanding Talents, Outstanding Scholar Award of the R. O. C., Outstanding Engineering Professor Award of the R. O. C., Chung-Shan Academic Publication Awards, Distinguished Research Awards of National Science Council of the R. O. C., Outstanding Scholarly Contribution Award of the International Institute for Advanced Studies in Systems Research and Cybernetics, Top Fifteen Scholars in Systems and Software Engineering of the Journal of Systems and Software, and so on. On numerous occasions, he was invited to serve as Visiting Professor, Chair Professor, Honorary Professor, Honorary Director, Honorary Chairman, Distinguished Alumnus, Distinguished Researcher, Research Fellow by universities and research institutes. He also published over 990 papers in Information Sciences. In the meantime, he participates actively in international academic organizations and performs advisory work to government agencies and academic organizations.

Keynote Speech 2:
Analysis and Design of High-capacity Associative Memories
Based on Cellular Neural Networks



Speaker:

IEEE Fellow Prof. Jun Wang

Department of Mechanical and Automation Engineering, The Chinese University of Hong Kong,
Shatin, New Territories, Hong Kong

Department of Computer Science and Engineering, Shanghai Jiao Tong University
Minhang, Shanghai, China

Abstract:

Together with learning, memory is one of most important cognitive functions in brain-like intelligence. Associative memories are brain-style devices designed to memorize a set of prototype patterns as stable equilibria such that the stored patterns can be reliably retrieved with the initial probes containing sufficient information about the patterns. This lecture presents new design procedures for synthesizing associative memories based on continuous-time and discrete-time cellular neural networks with time delays characterized by input and output matrices obtained using space- invariant cloning templates by solving a set of inequalities. The design procedures enable heteroassociative or autoassociative memories to be synthesized with a few design parameters and retrieval probes feeding from external inputs instead of initial states. The designed associative memories are robust in terms of design parameter selection. In addition, the hosting cellular neural networks are guaranteed to be globally exponentially stable. Simulation results of illustrative examples and Monte Carlo tests are shown to demonstrate the applicability and superiority of the methodology.

Biography:

Jun Wang is a Professor and the Director of Computational Intelligence Laboratory in the Department of Mechanical and Automation Engineering at the Chinese University of Hong Kong. Prior to this position, he held various academic positions at Dalian University of Technology, Case Western Reserve University, and University of North Dakota. Besides, he also held various short-term visiting positions at USAF Armstrong Laboratory (1995), REKEN Brain Science Institute (2001), Universite catholique de Louvain (2001), Chinese Academy of Sciences (2002), and Huazhong University of Science and Technology (2006-2007). He also holds a Changjiang Chair Professorship in computer science and engineering at Shanghai Jiao Tong University since 2008. He received a B.S. degree in electrical engineering and an M.S. degree in systems engineering from Dalian University of Technology, Dalian, China. He received his Ph.D. degree in systems engineering from Case Western Reserve University, Cleveland, Ohio, USA. His current research interests include neural networks and their applications. He published over 140 journal papers, 11 book chapters, 8 edited books, and numerous conference papers in the areas. He is an Associate Editor of the IEEE Transactions on Neural Networks since 1999 and IEEE Transactions on Systems, Man, and Cybernetics – Part B since 2003, a member of the Editorial Advisory Board of the International Journal of Neural System since 2006. He also served as an Associate Editor of the IEEE Transactions on Systems, Man, and Cybernetics – Part C (2002-2005), a guest editor of the special issue of European Journal of Operational Research (1996), International Journal of Neural Systems (2007), and Neurocomputing (2008), He was an organizer of several international conferences such as the General Chair of the 13th International Conference on Neural Information Processing (2006) and the 2008 IEEE World Congress on Computational Intelligence. He served as the President of Asia Pacific Neural Network Assembly in 2006. He is an IEEE Fellow.

Keynote Speech 3:
Evolutionary Algorithm for Multiobjective Optimization



Gary G. Yen, Ph.D., IEEE Fellow
Oklahoma State University, USA

Abstract:

Evolutionary computation is the study of biologically motivated computational paradigms which exert novel ideas and inspiration from natural evolution and adaptation. The application of Evolutionary Algorithms (EAs) in solving Multiobjective Optimization Problems has been receiving a growing interest from computational intelligence community. To search for a family of “acceptable” solutions, a so called Pareto set, by using EA’s population-based parallel searching ability, several MultiObjective Evolutionary Algorithms (MOEAs) have been proposed. However, most of these MOEAs have difficulty in dealing with the trade-off between uniformly distributing the computational resources and finding the *near-complete* and *near-optimal* Pareto set. On the other hand, according to the No Free Lunch theorems, no formal assurance of an algorithm’s general effectiveness exists if insufficient knowledge of the problem characteristics is incorporated into the algorithm domain. In this talk, population control is being implemented in various forms of evolutionary algorithms for the purpose of multiobjective optimization, including genetic algorithm, particle swarm optimization, and differential evolution. We will survey some related works along this line of research in dynamically regulating the population as needed in different stage of evolutionary process, some voluntary while others compulsory, in pursuing a uniformly distributed, near optimal, and close to complete Pareto front for a given MOP. Through numerical study, we will show these designs incorporating population control strategy provide very competitive performances qualitatively and quantitatively compared to some chosen state-of-the-art evolutionary algorithms.

Biography:

Gary G. Yen received the Ph.D. degree in electrical and computer engineering from the University of Notre Dame, Notre Dame, Indiana in 1992. He is currently a Professor in the School of Electrical and Computer Engineering, Oklahoma State University. Before he joined OSU in 1997, he was with the Structure Control Division, U.S. Air Force Research Laboratory in Albuquerque, NM. His research is supported by the DoD, DoE, EPA, NASA, NSF, and Process Industry. His research interest includes intelligent control, computational intelligence, evolutionary multiobjective optimization, conditional health monitoring, signal processing and their industrial/defense applications.

Gary was an associate editor of the *IEEE Transactions on Neural Networks* and *IEEE Control Systems Magazine* during 1994-1999, and of the *IEEE Transactions on Control Systems Technology*, *IEEE Transactions on Systems, Man and Cybernetics* and *IFAC Journal on Automatica and Mechatronics*. He is currently serving as an associate editor for the *IEEE Transactions on Evolutionary Computation*. He served as the General Chair for the *2003 IEEE International Symposium on Intelligent Control* held in Houston, TX and *2006 IEEE World Congress on Computational Intelligence* held in Vancouver, Canada. Gary served as Vice President for the Technical Activities, IEEE Computational Intelligence Society in 2004-2005 and is the founding editor-in-chief of the *IEEE Computational Intelligence Magazine* since 2006. Most recently, he is elected to serve as President Elect in 2009 and President in 2010-2011 of the IEEE Computational Intelligence Society. He is a Fellow of IEEE.

Part III Oral Session

Session 1:
Chair:
Meeting Room
Too be added soon.

Session 2:
Chair:
Meeting Room
Too be added soon.

Session3:
Chair:
Meeting Room
To be added soon.

Part IV Instructions for Presentations

Oral Presentation

Devices Provided by the Conference Organizer:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Laser Sticks

Materials Provided by the Presenters:

PowerPoint or PDF files

Duration of each Presentation (Tentatively):

Regular Oral Session: about 15 Minutes of Presentation, 5 Minutes of Q&A

Keynote Speech: 50 Minutes of Presentation, 10 Minutes of Q&A

Part V Hotel Information

The International Asia Pacific Convention Center

三亚亚太国际会议中心暨三亚海航度假酒店

<http://www.iapccsanya.com/index.htm>



The International Asia Pacific Convention Center & HNA Resort Sanya is the largest luxury five star convention resort owned and managed by the Hainan Airlines Group. The resort features 473 luxurious and spacious guestrooms and suites and a 5400 square meters convention center with 16 function rooms accommodating from 20 to 1000 persons. All the guestrooms are exquisitely decorated with different styles and equipped with broadband Internet access. The Sea-water swimming pool, private beach, tennis court, fitness centre, multinational cuisine, potable computer rental service etc. a relaxing vocation and successful business trip.

The International Asia Pacific Convention Center & HNA Resort Sanya is one of the modern convention centers in Hainan with state-of-the-art conference and audiovisual equipment. The resort has a well-trained and ardent banquet & conference service team, and they are happy to supply professional and efficient service for you.

Address: Sany Bay Resort District Sanya, Hainan 572000, China

地址: 中国海南三亚市三亚湾旅游度假区 邮编: 572000

How to get to the hotel

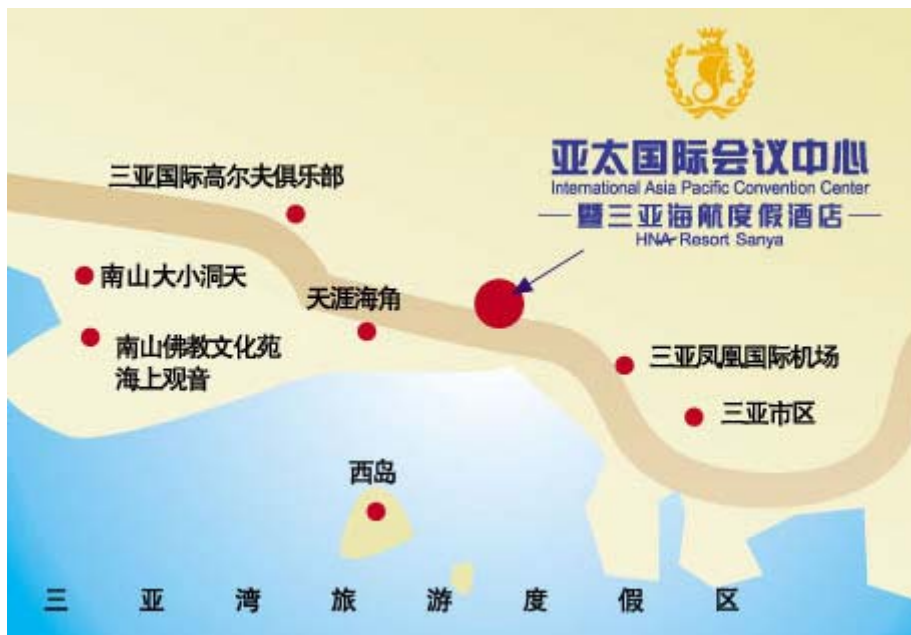
For non-Chinese Author, please show the following picture to the taxi driver if you take taxi.

请送我到:

三亚亚太国际会议中心, 三亚

Please take me to:

The International Asia Pacific Convention Center, Sanya, China



Room Rate:

客房价格:

Room Type 客房类型	Rate 价格
Mountain View Room 山景房	500 RMB/DAY 500 元/晚
Ocean View Room 海景房	600 RMB/DAY 600 元/晚
Ocean View Saloon Room 海景沙龙房	1288 RMB/DAY 1288 元/晚

*以上房费均含早餐 The price is including breakfast.

Reservation Tel: (86+898)88332666

预订电话: **0898-88332666**

*Before you make reservation, please tell the hotel telephonist that you are the attendees of FITME/ICHCC/ETT/FBIE2009. If not, you cannot get the reduced price.

预订客房的作者需跟酒店说明, 您是 FITME/ICHCC/ETT/FBIE2009 的参会人员, 否则不能享受以上优惠价格。

Part VI Contact Us

Organizing Committee

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