

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

**IeCCS-2007 Part II FINAL PROGRAMME**

**International e-Conference on Computer Science 2007  
14 – 24 December 2007: Part II  
<http://live.ieccs.net>**

**Day 5\* – Friday 14/12/2007**

\*The counting of the Days and Sessions continues from Part I  
(see the Part I Programme in the next pages)

**Session 11\*: Papers by J. Boyd et al.; Ying Yang et al.; Sylvia Encheva et al.;  
Byron C. Huntley et al.;**

09:30 – 10:10 GMT: A Parallel Lattice Boltzmann Model of a Carotid Artery  
*J. Boyd, S.J. Ryan and J.M. Buick*

10:15 – 10:55 GMT: Web-based Distributed Medical Information System for  
Chronic Viral Hepatitis  
*Ying Yang, Tuan-fa Qin, Jian-ning Jiang, Hui Lu, Zong-e Ma  
and Hong-chang Meng*

11:00 – 11:40 GMT: On Attaining a Higher Level of Certainty in the Process of  
Decision Making  
*Sylvia Encheva and Sharil Tumin*

11:45 – 12:25 GMT: The Impact of Time Delay on the Content of Discussions at a  
Computer-Mediated Conference  
*Byron C. Huntley and Andrew Thatcher*

**Session 12: Papers by Changjiang Zhang; Roman Starosolski; Igor Gashkov;  
Ana Maria A.C. Rocha et al.;**

14:00 – 14:40 GMT: High Quality Typhoon Cloud Image Restoration by Combining  
Genetic Algorithm with Contourlet Transform  
*Changjiang Zhang, Xiaodong Wang*

14:45 – 15:25 GMT: Compressing High Bit Depth Images of Sparse Histograms  
*Roman Starosolski*

15:30 – 16:10 GMT: Using the package “Coding Theory” for a search technique for  
Quasi-perfect Codes.  
*Igor Gashkov*

16:15 – 16:55 GMT: Performance Profile Assessment of Electromagnetism-like  
Algorithms for Global Optimization  
*Ana Maria A.C. Rocha and Edite M.G.P. Fernandes*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

*The days 15<sup>th</sup>, 16<sup>th</sup> and 17<sup>th</sup> of December have no scheduled paper presentations*

**Day 6 – Tuesday 18/12/2007**

**Session 13: Papers by L. Zhang et al.; Zai-En Hou et al.; F. Bianconi et al.;  
Gregorio Romero et al.;**

09:30 – 10:10 GMT: Influence of Cooling Water Temperature and Initial Heat  
Temperature of Bar On Heat Stress at the Bottom of V-shaped  
Notch  
*Lijun Zhang, Shengdun Zhao*

10:15 – 10:55 GMT: The Neural Network method of Corrosion Diagnosis for  
Grounding Grid  
*Zai-En HOU, Fu-Jian DUAN and Ke-Cun ZHANG*

11:00 – 11:40 GMT: Semi-automatic modeling of reverse-engineered shapes through  
design-by-feature and genetic algorithms  
*Francesco Bianconi, Paolo Conti and Gabriele Pazzaglia*

11:45 – 12:25 GMT: Simulation of an Asynchronous Machine by using a Pseudo  
Bond Graph  
*Gregorio Romero, Jesus Felez, Joaquin Maroto, M. Luisa  
Martinez*

**Session 14: Papers by Zhen Yang et al.; G. Concas et al.; M.C. Carnero et al.;  
Diana Perez-Marin et al.;**

14:00 – 14:40 GMT: Improved VSM for Incremental Text Classification  
*Zhen Yang, Jianjun Lei, Jian Wang, Xing Zhang and Jun Guo*

14:45 – 15:25 GMT: Analysing the Social Networks constituted by Open Source  
communities  
*Giulio Concas, Manuela Lisci, Sandro Pinna, Guido  
Porruvecchio and Selene Uras*

15:30 – 16:10 GMT: Maintenance Audit through Value Analysis Technique: A Case  
Study  
*M.C. Carnero and S. Delgado*

16:15 – 16:55 GMT: Validating Automatically Generated Students' Conceptual  
Models from Free-text Answers at the Level of Concepts  
*Diana Pérez-Marín, Ismael Pascual-Nieto, Pilar Rodríguez,  
Eloy Anguiano and Enrique Alfonseca*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

**Day 7 – Wednesday 19/12/2007**

**Session 15: Papers by Hua Zhang; Karl M. Petersson; Giuseppe Placidi; Dimitra D. Dionysiou; I. Garcia-Fernandez et al.**

- 09:30 – 10:10 GMT: 3D Linear Transformations in the Form of Matrix and Vector  
*Hua Zhang*
- 10:15 – 10:55 GMT: On Cognition, Structured Sequence Processing and Adaptive Dynamical Systems  
*Karl Magnus Petersson*
- 11:00 – 11:40 GMT: A Segmentation Algorithm for X-ray 3D Angiography and Vessel Catheterization  
*Giuseppe Placidi*
- 11:45 – 12:25 GMT: In Silico Simulation of a Clinical Trial Concerning Tumour Response to Radiotherapy  
*Dimitra D. Dionysiou*
- 12:30 – 13:10 GMT: Analysis of cable model, considering mass and wave oscillations  
*I. García-Fernández, M. Pla-Castells, R.J. Martínez-Durá*

**Session 16: Papers by Show-Shiow Tzeng et al.; H.T. Le et al.; Emrah Tomur et al.; A. Katsis et al.**

- 14:00 – 14:40 GMT: Multiple Quality-of-Service Provisioning for Non-Real-Time Services in Wireless Data Networks  
*Show-Shiow Tzeng and Hsin-Yi Lu*
- 14:45 – 15:25 GMT: Unified Approach to Vulnerability Analysis of Web Applications  
*H.T. Le and P.K.K. Loh*
- 15:30 – 16:10 GMT: An Analysis for the Correlation of Coverage and Spatial Resolution for Wireless Sensor Networks  
*Emrah Tomur, Y. Murat Erten*
- 16:15 – 16:55 GMT: Bayesian and Frequentist Estimation of the Average Capacity of Log Normal Wireless Optical Channels  
*A. Katsis, H.E. Nistazakis and G.S. Tombras*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

**Day 8 – Thursday 20/12/2007**

**Session 17: Papers by Dong Hu et al.; HeeMan Park et al.; Hong Hu et al.; Mario Malcangi; Ana Isabel P.N. Pereira et al.**

- 09:30 – 10:10 GMT: Security Research on VoIP with Watermarking  
*Dong Hu, Ping Lee*
- 10:15 – 10:55 GMT: Secure event service using SPKI/SDSI certificate in Ubiquitous  
*HeeMan Park, YoungLok Lee, HyungHyo Lee, BongNam Noh*
- 11:00 – 11:40 GMT: Probing Dynamical Character of Neural Circuits by Using Fuzzy Logic  
*Hong Hu and Zhongzhi Shi*
- 11:45 – 12:25 GMT: A Smart Audio User Interface to Access Large Digital Audio Archives on Handheld Devices  
*Mario Malcangi*
- 12:30 – 13:10 GMT: Numerical Experiments with a Continuous L2-exponential Merit Function for Semi-Infinite Programming  
*Ana Isabel P.N. Pereira, Edite M.G.P. Fernandes*

**Session 18: Special Session by Prof. G.C. Meletioui**

- 14:00 – 14:10 GMT: Introduction to the Special Session "Performance evaluation of Networks and Information Security"  
*G.C. Meletioui*
- 14:15 – 14:55 GMT: Evaluation study of a Wireless Multimedia Traffic-oriented Network model  
*D.C. Vasiliadis, G.E. Rizos and C. Vassilakis*
- 15:00 – 15:40 GMT: Performance Evaluation of both DSR and SSR Routing Protocols on various Wireless Networks  
*G.E. Rizos, D.C. Vasiliadis*
- 15:45 – 16:25 GMT: Evaluation Study of a Broadband Multicasting Service over a Gigabit Ethernet Delivery Network  
*E. Stergiou, G. Meletioui, D.C. Vasiliadis, G.E. Rizos and S.V. Margariti*
- 16:30 – 17:10 GMT: A Lightweight Implementation of Security for Peer-to-Peer Networks  
*S.V. Margariti, G. Meletioui, E. Stergiou, D.C. Vasiliadis and G.E. Rizos*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

*The days 21<sup>st</sup> and 22<sup>nd</sup> of December have no scheduled paper presentations*

**Day 9 – Sunday 23/12/2007**

**Session 19: Papers by S.C. Yuan; Tae-Kyung Kim et al.; Hao-Xian Wang et al.; Stefania Perri et al.; J. Angelopoulos et al.**

09:00 – 09:25 GMT: Design of Transmission Gate VCO and Dynamic PFD for Low Power CMOS PLL  
*S.C. Yuan*

09:30 – 09:55 GMT: SOA/BPM-based Dynamic SW Integration Scheme for Various Bioinformatics Tools  
*Tae-Kyung Kim, Seong-Hyeuk Nam, Tae-Sung Jung, Kyoung-Ran Kim, Jae-Soo Yoo and Wan-Sup Cho*

10:00 – 10:25 GMT: A Blind Video Watermarking Algorithm Based on SVD in the DCT Domain  
*Hao-Xian Wang, Zhe-Ming Lu and Sheng-He Sun*

10:30 – 10:55 GMT: Efficient Parallel Circuits for Census Transform  
*Stefania Perri, Daniela Colonna and Pasquale Corsonello*

11:00 – 11:25 GMT: Dynamic QoS provisioning for Ethernet-based Networks  
*J. Angelopoulos, K. Kanonakis, H. C. Leligou, Th. Orfanoudakis, M. Katsigiannis*

**Session 20: Papers by Alberto Taboada-Crispi et al.; Antonio Neme et al.; Maykel Orozco-Monteagudo et al.; Valeriy V. Gavrishchaka et al.; Kyoungjin Park et al.**

13:00 – 13:25 GMT: Simulation of Event-Related Potentials in a Wide Sense for Assessment of Detection/Estimation Algorithms  
*Alberto Taboada-Crispi, Maykel Orozco-Monteagudo, Carlos A. Ferrer-Riesgo, Alexander Falcón-Ruíz, Denis Hernández-Pacheco*

13:30 – 13:55 GMT: Self-organizing Maps with Refractory Periods  
*Antonio Neme and Victor Mireles*

14:00 – 14:25 GMT: Optimal Parameter for the Training of Multilayer Perceptron Neural Networks by Using Hierarchical Genetic Algorithm  
*Maykel Orozco-Monteagudo, Alberto Taboada-Crispi, Liliana Gutiérrez-Hernández*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

- 14:30 – 14:55 GMT: Boosting-based optimization as a generic framework for novelty and fraud detection in complex strategies  
*Valeriy V. Gavrishchaka, Maria Kovbasinskaya, and Maria Monina*
- 15:00 – 15:25 GMT: A Design of Web Service for Digital Photogrammetry Workstation using Service Oriented Architecture  
*Kyoungjin Park, Alper Yilmaz*

**Day 10 – Monday 24/12/2007**

**Session 21: Papers by Y-Chuang Chen et al.; Sylvia Encheva et al.; Willard Mittelman;**

- 10:30 – 10:55 GMT: Optimal Fault-Tolerant Hamiltonian and Hamiltonian Connected Graphs  
*Y-Chuang Chen, Yong-Zen Huang, Lih-Hsing Hsu and Jimmy J.M. Tan*
- 11:00 – 11:25 GMT: Collaborative Multi-Domains Users' Authentication Framework for Shareable Web Applications  
*Sylvia Encheva and Sharil Tumin*
- 11:30 – 11:55 GMT: Omega-inconsistency and the Universe of Sets  
*Willard Mittelman*

***END of IeCCS-2007: Part II  
Happy Holidays  
Thank you***

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

**IeCCS-2007 Part I FINAL PROGRAMME**

**International e-Conference on Computer Science 2007  
09 – 10 and 17 – 18 July 2007: Part I**  
<http://live.ieccs.net>

**Day 1 – Monday 09/07/2007**

**Session 1: Papers by M. Malcangi; J.Z. Gros; A. Suliman et al.; L. Paya et al.;**

09:30 – 10:10 GMT: Fuzzy Logic-Based Audio Pattern Recognition  
*Mario Malcangi*

10:15 – 10:55 GMT: MSD Recombination Method in Statistical Machine Translation  
*Jerneja Zganec Gros*

11:00 – 11:40 GMT: Extracting Features for the Linguistic Variables of Fuzzy Rules  
Using Hidden Markov Model  
*Azizah Suliman, Md. Nasir Sulaiman, Mohamed Othman,  
Rahmita Wirza*

11:45 – 12:25 GMT: Improving Appearance-Based Following Routes with a  
Probabilistic Approach  
*L. Paya, J.M. Pedrero, O. Reinoso, A. Gil and M. Julia*

**Session 2: Papers by D. Mezdour et al.; E. Gutierrez et al.; J.P. Montillet et al.**

14:00 – 14:40 GMT: A Simulation Study of Electrical Fibre Composite Conductivity  
*Dounia zed Mezdour and Salah Sahli*

14:45 – 15:25 GMT: Improving Quantum Gate Simulation using a GPU  
*E. Gutierrez, S. Romero, Maria Trenas, E.L. Zapata*

15:30 – 16:10 GMT: Super-Resolution Algorithm in Cumulative Virtual Blanking  
*J.P. Montillet, X. Meng, G.W. Roberts and M.S. Woolfson*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

**Day 2 – Tuesday 10/07/2007**

**Session 3: Papers by K. Wasaki et al.; S.C. Yuan; Insung Jung et al.**

- 10:00 – 10:40 GMT: A Design Verification of the Parallel Pipelined Image Processing  
*Katsumi Wasaki and Toshiaki Harai*
- 10:45 – 11:25 GMT: Fast 4-2 Compressor of Booth Multiplier Circuits for High-Speed RISC Processor  
*S.C. Yuan*
- 11:30 – 12:10 GMT: Two States Mapping Based Time-Series Neural Network Model for Compensation Prediction Residual Error  
*Insung Jung, Lockjo Koo and Gi-Nam Wang*

**Session 4: Papers by W. Bao et al.; L.Y. Hsu et al.; Y.K. Shih et al.**

- 13:00 – 13:40 GMT: A Parallel Algorithm for Solving Block-Tridiagonal System of Linear Equations  
*Wang Bao, Lv Quanyi*
- 13:45 – 14:25 GMT: The Hamiltonian Laceability of Honeycomb Tori  
*Li-Yen Hsu, Tung-Yi Lin and Shin-Shin Kao*
- 14:30 – 15:10 GMT: Deformed Honeycomb Tori  
*Yuan-Kang Shih, Shin-Shin Kao and Lih-Hsing Hsu*

*The days from 11<sup>th</sup> to 16<sup>th</sup> of July have no scheduled paper presentations*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

**Day 3 – Tuesday 17/07/2007**

**Session 5: Special Session by Prof. Gyula Csopaki**

- 08:00 – 08:40 GMT: Combined Test Model  
*Szilard Jasko et al.*
- 08:45 – 09:25 GMT: Game Theory in Fleet Management  
*Tibor Dulai et al.*
- 09:30 – 10:10 GMT: Instant Messaging by SIP  
*Dániel Muhi et al.*

**Session 6: Papers by Z. Xiao-yong et al.; X. Wang et al.; K. Fragiadakis et al.; R. Caballero-Aguila et al.**

- 10:30 – 11:10 GMT: Spherical Harmonic–Generalized Laguerre Spectral Method for Nonlinear Exterior Problems  
*Zhang Xiao-yong and Guo Ben-yu*
- 11:15 – 11:55 GMT: Speech Emotion Feature Selection Method Based on Contribution Analysis Algorithm of a Neural Network  
*Xiaojia Wang, Qirong Mao, Yongzhao Zhan*
- 12:00 – 12:40 GMT: Tests of Fit for Asymmetric Laplace Distributions with Applications on Financial Data  
*K. Fragiadakis and S. Meintanis*
- 12:45 – 13:25 GMT: Nonlinear Estimation of Discrete-time Signals under Random Observation Delay  
*R. Caballero-Aguila, A. Hermoso-Carazo, J. D. Jimenez-Lopez, J. Linares-Perez and S. Nakamori*

**Session 7: Papers by M. Ates; F. Castro-Company et al.; E. Ponce L. et al.; C. Ponce S. et al.**

- 15:00 – 15:40 GMT: Marrying Heterogeneous Circles of Trust: No Silver Bullet yet  
*Mikael Ates*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

- 15:45 – 16:25 GMT: A Quasi-metric Lattice Approach for Access Prediction in Replicated Database Protocols  
*F. Castro-Company, S. Romaguera, J.M. Sanchez-Alvarez and P. Tirado*
- 16:30 – 17:10 GMT: Two Dimensional Finite Element Analysis for the Effect of a Pressure Wave in the Human Brain  
*Ernesto Ponce L. and Daniel Ponce S.*
- 17:15 – 17:55 GMT: Measuring System for Growth Control of the Spirulina Aquaculture  
*Claudio Ponce S., Ernesto Ponce L. and Bernardo Barraza S.*

**Day 4 – Wednesday 18/07/2006**

**Session 8: Papers by Bin Liu; S. Encheva et al.; S. Tumin et al.**

- 08:00 – 08:40 GMT: Traffic Network Aided Plan and Road Line Optimization in Intelligent Traffic System  
*Bin Liu and Guofeng Qin*
- 08:45 – 09:25 GMT: Decision Support Systems in Logistics  
*S. Encheva, Y. Kondratenko, M.Z. Solesvik, S. Tumin*
- 09:30 – 10:10 GMT: Improving User Management in Networked Systems  
*S. Tumin, S. Encheva*

**Session 9: Papers by Woei-Jiunn Tsaur et al.; Mehraj-ud-Din Dar et al.; F. Sadri**

- 11:00 – 11:40 GMT: Dynamic Key Management Schemes for Secure Group Access Control using Hierarchical Clustering in Mobile Ad Hoc Networks  
*Woei-Jiunn Tsaur and Haw-Tyng Pai*
- 11:45 – 12:25 GMT: Pre-Printed Form Recognition and Extraction of Data  
*Mehraj-ud-Din Dar, P. Nagabhushan, A.H. Mir*
- 12:30 – 13:10 GMT: Multi-Agent Ambient Intelligence for Elderly Care and Assistance  
*Fariba Sadri*

**International e-Conference  
on Computer Science  
December 2007 (Part II) & July 2007 (Part I)**

**Session 10: Special Session by Dr D.S. Vlachos**

- 15:00 – 15:40 GMT: Simulation of an Ant Colony Optimization Technique in Continuous Space-Time  
*D.S. Vlachos*
- 15:45 – 16:25 GMT: A Discrete Lagrangian Algorithm for Optimal Routing Problems  
*O.T. Kosmas, D.S. Vlachos and T.E. Simos*
- 16:30 – 17:10 GMT: Obstacle Bypassing in Optimal Ship Routing using Simulated Annealing  
*O.T. Kosmas, D.S. Vlachos and T.E. Simos*
- 17:15 – 17:55 GMT: PSEMA: An Algorithm for Pattern Stimulated Evolution of Music  
*A.N. Mavrogianni, D.S. Vlachos and G. Harvalias*

***END of IeCCS-2007: Part I  
Thank you***