**HIS 2012 Program**

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| |  | | --- | | **April 8th, 2012** | | | |
| |  | | --- | | 2:00-6:00pm | | |  | | --- | | Registration and social activity (including local tour around Olympic Park) | | |
| |  | | --- | | 6:00-8:00pm | | |  | | --- | | Reception | | |
| |  | | --- | | **April 9th, 2012** | | | |
| |  | | --- | | Opening | | |  | | --- | | 8:40~9:00 AM | | |  | | --- | | Chair speech | |
| |  | | --- | | Keynotes | | |  | | --- | | 9:00~9:45 AM | | |  | | --- | | **Keynote 1: Telehealth Strategies and Information Technology Transform Patient Care within the U.S. Department of Veterans Affairs**  *Leonard Goldschmidt, Department of Veterans Affairs Palo Alto Health Care System & Stanford University Medical School, USA* | |
| |  | | --- | | 9:45~10:30 AM | | |  | | --- | | **Keynote 2: From Clinical Data to Knowledge Mining for Decision Making within Hospitals**  *Michael Steyn , Royal Brisbane & Women's Hospital, Australia* | |
|  | |  | | --- | | 10:30~10:50 AM | | |  | | --- | | Tea break and Photo | |
| |  | | --- | | Session1 | | |  | | --- | | 10:50~11:15 AM | | |  | | --- | | **Building Socioemotional Environments in Metaverses for Virtual Teams in Healthcare: A Conceptual Exploration**  *Xiaodan Yu, Yong Shi, Dawn Owens, Deepak Khazanchi* | |
| |  | | --- | | 11:15~11:40 AM | | |  | | --- | | **Integrating Healthcare-related Information using the Entity-Attribute-Value Storage Model**  *Dortje Löper, Meike Klettke, Ilvio Bruder, Andreas Heuer* | |
| |  | | --- | | 11:40~12:05 PM | | |  | | --- | | **Median Polish with Power Transformations as an Alternative for the Analysis of Contingency Tables with Patient Data**  *Frank Klawonn Ostfalia University of Applied Sciences and Helmholtz Centre for Infection Research Inhoffenstr, Germany Katja Crull, Frank Pessler, Akiko Kukita* | |
| |  | | --- | | 12:05~12:30 PM | | |  | | --- | | **An Integrated Approach for Healthcare Planning over Dimensional Data using long-term Prediction**  *Rui Henriques, Cláudia Antunes, D2PM, IST-UTL, Portugal* | |
|  | |  | | --- | | 12:30~2:00 PM | | |  | | --- | | Lunch | |
| |  | | --- | | Session2 | | |  | | --- | | 2:00~2:25 PM | | **A Novel Automated Recognition System Based on**  **Medical Machining CAD Model**  *Hao Lan Zhang, Weitao Jiang, Huiqin Wu, and Libing Shu* |
| |  | | --- | | 2:25~2:50 PM | | |  | | --- | | **Color Image Sharing Method based on Lagrange’s Interpolating Polynomial**  *Guiqiang Chen, Jianjun Liu, Wang Liqin* | |
| 2:50~3:15 PM | |  | | --- | | **Automation in Cytomics: A Modern RDBMS Based Platform for Image Analysis and Management in High-Throughput Screening Experiments**  *Enrique Larios Vargas, Kuan Yan, Fons Verbeek, Ying Zhang, Fabian Groffen, Zi Di, Sylvia Le Devedec* | |
| 3:15~3:40 PM | **MRF Reconstruction of Retinal Images for The Optic Disc**  **Segmentation**  *Ana G. Salazar-Gonzalez, Yongmin Li, Djibril Kaba* |
| 3:40~4:05 PM | **Normalized Cut Segmentation of Thyroid Tumor Image**  **Based on Fractional Derivatives**  *Jie Zhao, Li Zhang, Wei Zheng, Hua Tian, Dong-mei Hao, Song-hong Wu* |
|  | 4:05~4:30 PM | Tea break & **Demo and Software** |
| Session3 | 4:30~4:55 PM | **Cellular Neural Networks for Gold**  **Immunochromatographic Strip Image Segmentation**  *Nianyin Zeng, Zidong Wang, Yurong Li, Min Du* |
| 4:55~5:20 PM | **A New Classification Method for Human Gene Splice Sites**  **Prediction**  *Dan Wei, Weiwei Zhuang, Qingshan Jiang, Yanjie Wei* |
| 5:20~5:45 PM | **Association Rule Analysis for Complex Physiological and**  **Genetic Data**  *Jing He, Yanchun Zhang, Guangyan Huang, Yefei Xin, Xiaohui Liu,*  *Haolan Zhang, Stanley Chiang, Hailun Zhang* |
|  | 5:45~6:10 PM | **Analysis of Nursery School Observations for**  **Understanding Children’s Behavior**  *Jien Kato, Yu Wang* |
| **April 10th, 2012** | | |
| Panel  Discussion | 9:00~10:30 AM | **Medical Devices and Data Processing**  Moderator: Terry Young, Brunel University, UK  Members:  Prof. Guiqing Lily Yao, University of Birminghan,UK  Dr. David Hansen, Australian e-health Research Centre, Australia  Dr. Stanley Tian-Lin Chiang, Northcote Clinics, Australia  Prof. Jie Liu, Beijing Jiaotong University, China  Prof. Xiaofeng Meng, Renmin University, China  **Invited Speech:**   1. Challenges and Opportunities for Health Information   Systems Research  *David Hansen*   1. E-Health in Australia - A General Practitioner's   Perspective  *Stanley Chiang* |
|  | 10:30~11:00 AM | Tea break & **Demo and Software** |
| Session4 | 11:00~11:25 AM | **Epidemic Outbreak and Spread Detection System Based on Twitter Data**  *Xiang Ji, James Geller, Soon Ae Chun* |
| 11:25~11:50 AM | **A Lightweight Approach for Extracting Disease-Symptom Relation with MetaMap toward Automated Generation of Disease Knowledge Base**  *TAKASHI OKUMURA, Yuka Tateisi* |
| 11:50~12:15 PM | **Novel Hybrid Feature Selection Algorithms for Diagnosing Erythematosquamous Diseases**  *Juanying Xie, Jinhu Lei, Weixin Xie, Xinbo Gao, Yong Shi, Xiaohui Liu* |
| Closing | 12:15~12:25 PM | Closing Session |

Session Details on **Demo and Software**

* Baby Careware: A Fulltime Secured Health Consultant

*Yanjun Cui, Yanping Zhou, Huan Mei, Zheng Zhao*

* Mobile applications to wards prevention and management of chronic disease

*Hang Ding, Marlien Varnfield, Mohan Karunanithi*

* A Healthcare Information System with Augmented Access Controls

*Nagajyothi Gunti, Weiqing Sun, Mingzhe Xu, Zidong Liu, Mohammed Niamat, Mansoor Alam*