

# International Workshop on Data Mining for Healthcare September 11 2013

Held in conjunction with **IEEE International Conference on Healthcare Informatics (ICHI 2013)**  
September 09-11, 2013, Philadelphia, PA, USA

## WORKSHOP PROGRAM

Time	Title	Theme
8:50 AM - 9:00 AM	Introduction	
9:00 AM to 9:20 AM	A Novel Approach to Uncover Health Care Frauds Through Spectral Analysis <i>Author(s):</i> Song Chen and Aryya Gangopadhyay	Privacy and Fraud
9:20 AM to 10:10 AM	Predictive Modeling of Large Healthcare Data under Privacy Constraints <i>Speaker:</i> Dr. Joydeep Ghosh (University of Texas at Austin) <i>Invited talk to include the following workshop paper presentation:</i> Perturbed Gibbs Samplers for Generating Large-Scale Privacy-Safe Synthetic Health Data. <i>Author(s):</i> Yubin Park, Joydeep Ghosh, and Mallikarjun Shankar	Invited Talk /Privacy and Fraud
10:10 AM - 10:30 AM	Break	
10:30 AM - 10:50 AM	Removing Confounding Factors via Constraint-Based Clustering: An Application to Finding Homogeneous Groups of MS Patients <i>Author(s):</i> Jingjing Liu, Carla E. Brodley, Brian C. Healy, and Tanuja Chitnis	Screening and Diagnosis
10:50 AM - 11:10 AM	Automatic Patient Search Using Bernoulli Model <i>Author(s):</i> Yingying Gu, Christopher Kallas, Jun Zhang, James Marx, and Judy Tjoe	Screening and Diagnosis
11:10 AM - 11:30 AM	Early Diagnosis and Its Benefits in Sepsis Blood Purification Treatment <i>Author(s):</i> Mohamed Ghalwash, Vladan Radosavljevic, and Zoran Obradovic	Screening and Diagnosis
11:30 AM - 11:50 AM	Using Structured EHR Data and SVM to Support ICD-9-CM Coding <i>Author(s):</i> José Ferrão, Mónica D. Oliveira, Filipe Janela, and Henrique M. G. Martins	Data Properties and Management
12:00 noon - 1:00 PM	Lunch	
1:00 PM - 1:20 PM	Impact of Density of Lab Data in EHR for Prediction of Potentially Preventable Events <i>Author(s):</i> Chandrima Sarkar and Jaideep Srivastava	Data Properties and Management
1:20 PM: 1:40 PM	Towards the Discovery of Diseases Related by Genes Using Vertex Similarity Measures <i>Author(s):</i> Hung-Hsuan Chen and C. Lee Giles	Data Properties and Management
1:40 PM - 2:30 PM	When Bigger is not Better: Some Challenges in the Analysis of Big Data <i>Speaker:</i> Dr. Robert Kaplan (National Institutes of Health)	Invited Talk
2:30 PM - 3:00 PM	Break	
3:00 PM to 4:15 PM	Predictive Modeling in Healthcare: Challenges, Realities, and Opportunities <i>Moderator:</i> Dr. Jaideep Srivastava (University of Minnesota) <i>Panel Members:</i> <ul style="list-style-type: none"> <li>• Dr. Joydeep Ghosh (University of Texas at Austin)</li> <li>• Dr. Vipin Gopal (Humana)</li> <li>• Dr. Vasant Honavar (National Science Foundation/Iowa State University)</li> <li>• Dr. Robert Kaplan (National Institutes of Health)</li> <li>• Dr. Longjian Liu (Drexel University)</li> </ul>	Panel Discussion
4:15 PM to 4:30 PM	Closing	

### Workshop Organizers

**Dr. Prasanna Desikan**  
Sr. Research Scientist  
Division of Applied Research  
Allina Health

**Dr. Ritu Khare**  
Research Fellow  
National Center for Biotechnology Information  
National Institutes of Health