CONFEREN CE PROGRAM

ADVANCING INFORMATICS
for healthcare and healthcare applications

Conference Location:
University of Arizona
College of Medicine - Phoenix campus
550 East Van Buren Street, Phoenix, AZ USA

DAY ONE

8:00 - 9:00 am  Conference Registration
9:00 - 9:05 am  Opening Remarks by Dr. Raghu Santanam, Arizona State University  
9:10 - 9:50 am  Session 1: Keynote Speech, Dr. Hsinchun Chen, University of Arizona Regents’ Professor:  
"National Science Foundation and Smart and Connected Health (SCH): Overview and Case Study"
9:50 - 10:10 am  Coffee Break
10:10 - 12:15 pm  Session 2: Big Data and Smart Health  
12:15 - 1:45 pm  Lunch Break  
1:50 - 3:40 pm  Session 3: Health Data Analysis and Management  
3:40 - 4:00 pm  Coffee Break
4:00 - 5:30 pm  Session 4: Healthcare Intelligent Systems and Clinical Practice
5:30 - 6:00 pm  Authors set up for Meet the Authors Poster Session  
6:00 - 7:30 pm  Session 5: Meet the Authors Poster Session and Conference Reception

DAY TWO

8:00 - 8:30 am  Conference Registration
8:30 - 10:20 am  Session 6: Medical Monitoring and Information Extraction  
10:20 - 10:40 am  Coffee Break
10:40 - 12:25 pm  Session 7: Clinical and Medical Data Mining
12:25 - 12:30 pm  Conference Close
12:30 - 1:15 pm  Lunch Break
1:15 - 1:45 pm  Optional Tour of Health Sciences Education Building

DAY ONE : TUESDAY, NOVEMBER 17, 2015

**SESSION 1**

**OPENING SESSION**

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Opening Remarks (5 min.)</td>
<td>Room C204</td>
<td>9:00 AM</td>
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<tr>
<td>Keynote Address (45 min.)</td>
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<td>9:50 AM</td>
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Dr. Raghu Santanam, Arizona State University

Dr. Hsinchun Chen, University of Arizona Regents’ Professor: “The National Science Foundation and Smart and Connected Health (SCH): Overview and Case Study.” *Session Chair: Raghu Santanam.*

**COFFEE BREAK**

<table>
<thead>
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<th>Time</th>
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<td>9:50 AM - 10:10 AM</td>
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**SESSION 2**

**BIG DATA + SMART HEALTH**

<table>
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<tr>
<th>Event</th>
<th>Authors</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>Session Chair: Mohd Anwar</td>
<td></td>
<td>Room C204</td>
<td>10:10 AM</td>
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<tr>
<td>Electronic Health Records and Patient Activation – Their Interactive Role in Medication Adherence.</td>
<td>Yunfeng Shi, Veronica Fuentes-Caceres, Megan McHugh, Jessica Greene, Nina Verevkina, Lawrence Casalino and Stephen Shortell</td>
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<td>Health-related Spammer Detection on Chinese Social Media.</td>
<td>Xinhuan Chen, Yong Zhang, Jennifer Xu, Chunxiao Xing and Hsinchun Chen</td>
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<td>Chronic Knowledge Retrieval and Smart Health Services Based on Big Data.</td>
<td>Ye Liang, Chunxiao Xing, Yong Zhang and Chao Li.</td>
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<td>When A Teen's Stress Level Comes to The Top/Bottom: A Fuzzy Candlestick Line Based Approach on Micro-blog.</td>
<td>Yiping Li, Ling Feng and Zhuonan Feng.</td>
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<td>Linking Obesity and Tweets.</td>
<td>Mohd Anwar and Zhuoning Yuan.</td>
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<tr>
<td>Social Dynamics of the Online Health Communities for Mental Health.</td>
<td>Ronghua Xu and Qingpeng Zhang.</td>
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*LONG PAPERS: All long papers have 15 minutes of presentation time followed by 2-3 minutes for questions.*

*SHORT PAPERS: All short papers have 12 minutes of presentation time followed by 2-3 minutes for questions.*
DAY ONE : TUESDAY, NOVEMBER 17, 2015

LUNCHEON BUFFET  
AUDITORIUM  
12:15-1:45 PM

SESSION 3
HEALTH DATA ANALYSIS + MANAGEMENT  
ROOM C204  
1:50-3:40 PM

Session Chair: James Ma

Skin Resistance as a Physiological Indicator for Quadriplegics with Spinal Cord Injuries During Activities of Daily Living. Authors: Shruthi Suresh, Han Duerstock and Bradley Duerstock.  
Long Paper

Smart Health: Medication Abuse & Addiction. Author: Upkar Varshney.  
Short Paper

Real-Time Prediction of Blood Alcohol Content using Smartwatch Sensor Data. Authors: Mario Gutierrez, Michelle Fast, Anne Ng and Byron Gao.  
Long Paper

Time and Economic Burden of Comorbidities among COPD Inpatients. Authors: Jiaqi Liu, James Ma, Jiaojiao Wang, Daniel Zeng, Hongbin Song, Ligui Wang and Zhidong Cao.  
Short Paper

How Price Affect Online Purchase Behavior in Online Healthcare Consulting? Perceived Quality as a Mediator. Authors: Jianwei Liu and Qiang Ye.  
Short Paper

Stress Quantification and Sleep Quality Assessment Using a Wearable Device for Daily Feedback to Improve Stress Management. Authors: Jesus Garcia-Mancilla and Victor M. Gonzalez.  
Short Paper

Index of Difficulty between Multiple Joint Movements Using Fitts Law. Authors: Neeraj Gupta, Siva Dantu and Ram Dantu.  
Short Paper

COFFEE BREAK  
3:40 - 4:00 PM

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DAY ONE : TUESDAY, NOVEMBER 17, 2015

SESSION 4        ROOM C204  4:00 - 5:30 PM
HEALTHCARE INTELLIGENT SYSTEMS + CLINICAL PRACTICE

Session Chair: Xin Li


Design of a Mobile Application to Support Non-Pharmacological Therapies for People with Alzheimers Disease. Authors: Angie K. Reyes, Jorge E. Camargo and Gloria Diaz. Long Paper

A Speech-Based Mobile App for Restaurant Order Recognition and Low-Burden Diet Tracking. Authors: Xiaochen Huang and Emmanuel Agu. Short Paper

DRSTI: A Workbench for Querying Retinal Image Data of Age-related Macular Degeneration Patients. Authors: Abhinav Parakh, Parvathi Chundi and Mahadevan Subramaniam. Long Paper

SET-UP FOR POSTER SESSIONS       AUDITORIUM  5:30 - 6:00 PM

MEET THE AUTHORS : POSTER SESSION + ALL CONFERENCE RECEPTION  6:00 - 7:30 PM

The reception includes a hosted bar, h’ors d’oeuvres, and the opportunity to speak with conference authors and network with colleagues old and new. All authors are encouraged to post their work and may post up to twelve slides on the poster boards provided. In addition, two accepted Posters will be presented:

♦ An Approach to Automate Health Monitoring in Compliance With Personal Privacy. Author: Nikolay Kazantsev

♦ Interoperability Standards of Applications Proposed for the Health Sector. Authors: Octavio Salcedo Parra and Brayan Reyes.

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DAY TWO : WEDNESDAY, NOVEMBER 18, 2015

SESSION 6  ROOM C204  8:30 - 10:20 AM
MEDICAL MONITORING + INFORMATION EXTRACTION

Session Chair: Gerasimos Spanakis

SilverLink: Smart Home Health Monitoring for Senior Care. Authors: Joshua Chuang, Lubaina Maimoon, Shuo Yu, Hongyi Zhu, Casper Nybroe, Owen Hsiao, Shu-Hsing Li, Hsinmin Lu and Hsinchun Chen. Long Paper

Real-Time Models to Predict the Use of Vasopressors in Monitored Patients. Authors: André Braga, Filipe Portela, Manuel Filipe Santos, António Abela, José Machado, Fernando Rua Martins and Álvaro Silva. Long Paper

Mobile Cloud Computing as an Alternative for Monitoring Child Mental Disorders. Authors: Shavely S. Pusey, Jorge E. Camargo and Gloria Díaz. Long Paper

Network Analysis of Ecological Momentary Assessment Data for Monitoring and Understanding Eating Behavior. Authors: Gerasimos Spanakis, Gerhard Weiss, Anne Roefs and Bastiaan Boh. Long Paper

Chronic Disease Related Entity Extraction in Online Chinese Question & Answer Services. Authors: Yan Zhang, Yong Zhang, Yanshen Yin, Jennifer Xu, Chunxiao Xing and Hsinchun Chen. Long Paper

Sentiment Analysis on Chinese Health Forums: A Preliminary Study of Different Language Models. Authors: Yan Zhang, Yong Zhang, Jennifer Xu, Chunxiao Xing and Hsinchun Chen. Long Paper

COFFEE BREAK  10:20 - 10:40 AM

SESSION 7  ROOM C204  10:40 - 12:25 PM
CLINICAL + MEDICAL DATA MINING

Session Chair: Nan Kong

Clustering Analysis on Patient-Physician Communication and Shared Decision-Making during Cancer Prognosis Discussion. Authors: Yikang Li, Yuxuan Liu, Nan Kong and Cleveland Shields. Long Paper

LONG PAPERS: All long papers have 15 minutes of presentation time followed by 2-3 minutes for questions. SHORT PAPERS: All short papers have 12 minutes of presentation time followed by 2-3 minutes for questions.
DAY TWO : WEDNESDAY, NOVEMBER 18, 2015

SESSION 7, continued

Need for a Specialized Metamodel for Biomedical and Health Informatics Domain. Authors: Rishi Kanth Saripalle.  

Predicting Pre-triage Waiting Time in a Maternity Emergency Room through Data Mining. Authors: Sónia Pereira, Filipe Portela, Manuel Filipe Santos, José Machado and António Abelha.  


Information Credibility: A Probabilistic Graphical Model for Identifying Credible Influenza Posts on Social Media. Authors: Qiaozhen Guo, Wanye Huang, Kai Huang and Xiao Liu.  


CONFERENCE CLOSE  
ROOM C204  
12:25 - 12:30 PM

LUNCH
A box lunch is available. Folks who wish to grab and go may do so, or seating for more leisurely dining is available in the Auditorium. Lunch will be followed by the optional tour of the Health Sciences Education Building.

OPTIONAL TOUR  
HEALTH SCIENCES EDUCATION BLDG  
1:15 - 1:45 PM

We are offering an optional tour folks who are interested in seeing the Phoenix campus’ new Health Sciences Education Building. The tour can accommodate up to about 15 people on a first come-first served basis.

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