

**Expanding the Boundaries of Health Informatics Using Artificial Intelligence
(HIAI 2013)**

8:55 – 9:00am	Welcome
9:00 – 9:45am	Keynote Speaker: Mark Musen <i>Artificial Intelligence in Medicine: It's Back to the Future</i>
9:45-10:30am	<i>Invited Speaker: Marty Tenenbaum (Application)</i> <i>Applying Human and Machine Intelligence to Organize and Refine the World's Knowledge About Treating Cancer</i>
10:30-11am	Coffee Break
11:00am – 12:00pm	Session 1: Systems Session Chair: Wojtek Michalowski
11:00 – 11:15 (short)	Mark Dredze, Michael Paul, Shane Bergsma and Hieu Tran. <i>A Twitter Geolocation System with Applications to Public Health</i>
11:15 – 11:30 (short)	John Chelsom, Ian Gaywood and Ira Pande. <i>Supporting Multiple Clinical Perspectives on a Patient-Centred Record Using Ontology Models</i>
11:30 – 11:45 (short)	Yolanda Gil, Shannon McWeeney and Christopher Mason. <i>Using Semantic Workflows to Disseminate Best Practices and Accelerate Discoveries in Multi-Omic Data Analysis</i>
11:45 – 12:00 (short)	Masoumeh Izadi, Arash Shaban-Nejad, David Buckeridge, Luke Mondor and Anya Okhmatovskaia. <i>Population Health Record: An Informatics Infrastructure for Management, Integration, and Analysis of Large Scale Population Health Data</i>
12:00-1:30pm	Lunch Break (lunch provided)
12:30-1:00pm	Panel Discussion: Mark Musen, Barry O'Sullivan, Marty Tenenbaum, Wojtek Michalowski <i>AI and the Personalization of Patient Care: Challenges and Solutions</i>
1:30 – 2:15pm	<i>Invited Speaker: Barry O'Sullivan (Theory)</i> <i>Using Optimization and Analytics in Improving the Capacity of Health Services</i>
2:15 – 4:00 pm	Session 2: Classification Session Chair: Martin Michalowski
2:15 – 2:30 (short)	Seth Long and Larry Holder. <i>Discovery of Discriminating Neural Regions for MRI Classification</i>
2:30 – 2:55	Jesse Davis, Vitor Santos Costa, Peggy Peissig, Michael Caldwell and David Page. <i>A Preliminary Investigation into Predictive Models for Adverse Drug Events</i>

2:55 – 3:20	Michael Tepper, Heather L. Evans, Fei Xia and Meliha Yetisgen-Yildiz. <i>Modeling Annotator Rationales with Application to Pneumonia Classification</i>
3:30 – 4:00pm	Coffee Break
4:00 – 4:25	Jennifer Williams, Alyssa Weakley, Diane Cook and Maureen Schmitter-Edgecombe. <i>Machine learning techniques for diagnostic differentiation of mild cognitive impairment and dementia</i>
4:25 – 4:40 (short)	Marco Huesch, Greg Ver Steeg and Aram Galstyan. <i>Analyzing Vaccine Skepticism in Social Media</i>
4:40 – 6:20pm	Session 3: Analysis Session Chair: Szymon Wilk
4:40 – 5:05	Jan Van Haaren, Jesse Davis, Martijn Lappenschaar and Arjen Hommersom. <i>Exploring Disease Interactions using Markov Networks</i>
5:05 – 5:30	Martin Michalowski, Szymon Wilk, Wojtek Michalowski, Xing Tan, Di Lin and Subhra Mohapatra. <i>Procedural Approach to Mitigating Concurrently Applied Clinical Practice Guidelines</i>
5:30 – 5:55	John A. Doucette and Robin Cohen. <i>Addressing Preemption Costs in Multi-Agent Resource Allocation for Medical Applications</i>
5:55 – 6:20	Michael Paul, Byron Wallace and Mark Dredze. <i>What Affects Patient (Dis)satisfaction? Analyzing Online Doctor Ratings with a Joint Topic-Sentiment Model</i>
6:20 – 6:30pm	Closing Remarks and Wrap-up

Long presentation: 25 minutes (20 presentation + 5 for discussion)

Short presentation (short): 15 minutes (10 presentation + 5 for discussion)