

1st Workshop on Data Mining for Medical Informatics: Electronic Phenotyping

Nov 15, 2014, Washington, DC

Nov 15, Saturday	
8:30 – 8:40	Workshop Opening
8:40 – 9:20	Keynote Joshua Denny: The success, challenge, and promise of EHR Phenotypes for medical and genomic research
9:20 – 10:45	State of the Art (invited talks and panel discussion) Shawn Murphy, Patrick Ryan, Jyoti Pathak, Maryan Zirkle, Joshua Denny Shawn Murphy: TBA Patrick Ryan: Standardizing the definition and implementation of phenotypes to enable systematic observational analysis: Lessons from OHDSI Jyoti Pathak: EHR-driven high-throughput phenotyping: The role of standards and metadata Maryan Zirkle: TBA
10:45 – 11:00	Coffee Break
11:00 – 12:10	Mining Careflows of Breast Cancer Patients Lucia Sacchi, Arianna Dagliati and Riccardo Bellazzi Risk-Associated Temporal Clinical pathways in T2D Patients Arianna Dagliati, Lucia Sacchi, Daniele Segagni, Paola Leporati, Luca Chiovato and Riccardo Bellazzi Using narratives as a source to automatically learn phenotype models Vibhu Agarwal, Paea Lependu, Tanya Podchiyska, Rick Barber, Mary Boland, George Hripcsak and Nigam Shah Automated Extraction of Date of Cancer Diagnosis from EMR Data Sources Jeremy Warner, Lucy Wang, Ravi Atreya, Pam Carney, Joe Burden and Mia Levy
12:10 – 13:10	Lunch Break
13:10 – 14:15	Prediction of Clinical Procedures via Time Intervals Mining Robert Moskovitch, Colin Walsh, George Hripcsak, and Nicholas Tatonetti Using Anchors to Estimate Clinical State without Labeled Data Yoni Halpern, Youngduck Choi, Steven Horng and David Sontag High-throughput Phenotyping on Electronic Health Records using Multi-Tensor Factorization Jimeng Sun, Joydeep Ghosh, Abel Kho, Joshua Denny and Bradely Malin Computational discovery of physiomes in critically ill children using deep learning David Kale, Zhengping Che and Yan Liu
14:15 – 15:15	Discussion on open problems and future directions George Hripcsak: The Physics of the Medical Record
15:15 – 15:30	Coffee Break
15:30 – 16:15	Keynote Iain Buchan: Data-responsive Phenotyping for Healthcare
16:15 – 16:30	Closing Remarks