



Use of Natural Language Processing to Extract Information from Clinical Text

Thursday, June 15, 2017 FDA White Oak Campus, Building 31 Room 1503B/C

AGENDA

Time	Topic	Speaker		
7:45 am	Registration			
8:30 am	Welcome	Rita Ouellet- Hellstrom, PhD, MPH FDA/CDER		
8:35 am	FDA's interest in natural language processing of clinical texts for pharmacovigilance, pharmacoepidemiology and other uses	Robert Ball, MD, MPH FDA/CDER		
9:00 am	Current trends in clinical NLP literature	Russ Altman, MD, PhD Stanford University		
MORNING SESSION				
Moderator: Russ Altman, MD, PhD (Stanford University)				
9:30 am	Lessons learned from NLP implementations at FDA	Mitra Rocca, Dipl. Inform. Med FDA/CDER		
10:00 am	Novel NLP Methods for Medication-Related Insights from Longitudinal Patient Records	Murthy Devarakonda, PhD IBM Research		
10:30 am	BREAK			
10:45 am	Mining the EHR to understand disease, drugs, and adverse events	Nigam Shah, MBBS, PhD Stanford University		
11:15 am	Panel Discussion - Addressing the strengths and limitations of NLP solutions	Moderator:		
	Panelists: Robert Ball, MD, MPH (FDA/CDER), Isaac Chang, PhD (FDA/CDRH), Murthy Devarakonda, PhD (IBM Research), Rita Ouellet-Hellstrom, PhD, MPH (FDA/CDER), Mitra Rocca, Dipl. Inform. Med (FDA/CDER), Nigam Shah, MBBS, PhD (Stanford University), Mark Walderhaug, PhD (FDA/CBER)	Russ Altman, MD, PhD Stanford University		
12:30 pm	Lunch (on your own- see below for information on pre- ordering)			

AFTERNOON SESSION Moderator: Mark Walderhaug, PhD (FDA/CBER)			
1:30 pm	Adapting clinical NLP methods for multi-site medical products research	David Carrell, PhD Kaiser Permanente Washington Health Research Institute	
2:00 pm	Advance Drug Safety Research with Semantic Analysis of Electronic Health Records	Hong Yu, PhD University of Massachusetts Medical School	
2:30 pm	Flexible NLP for varied applications and data sources, including cohort selection and adverse event coding/validation	David Milward, PhD Linguamatics	
3:00 pm	BREAK		
3:15 pm	Leveraging NLP and diverse data sources to mine drug repositioning, adverse drug events, and patient-reported medication outcome information	Hongfang Liu, PhD Mayo Clinic Lixia Yao, PhD Mayo Clinic	
3:45 pm	Panel Discussion - What is the way forward for clinical NLP? Panelists: Russ Altman, MD, PhD (Stanford University), David Carrell, PhD (Kaiser Permanente Washington Health Research Institute), Isaac Chang, PhD (FDA/CDRH), Hongfang Liu, PhD or Lixia Yao, PhD (Mayo Clinic), David Milward, PhD (Linguamatics), Rita Ouellet-Hellstrom, PhD, MPH (FDA/CDER), Hong Yu, PhD (University of Massachusetts Medical School)	Moderator: Mark Walderhaug, PhD FDA/CBER	
4:45 pm	Closing Remarks	Dragutin Petkovic, PhD San Francisco State University	

Guest Wi-Fi Information

Network: FDA-PUBLIC publicaccess

After selecting this network, open your internet browser- the FDA Wifi page should automatically load. If your browser displays a security error page before loading the FDA WiFi page, click "continue to this website."

Lunch Information

If you would like to order a bagged lunch, please stop by the kiosk in the lobby area to place your order and prepay by 10:30 am.

Workshop Website - http://www.ucsfstanfordcersi.org/nlp-workshop