

Roadmap

Section	Week	Date	Topic	Reading	Assignments
Overview	1	1/17	Introduction	Picard, 1995; Vinciarelli et al., 2009; Narayanan et al., 2013	HW 1 Out
	1	1/19			
	2	1/22	Ecologically valid data collection procedures: In-lab and ambulatory measures	Iopatovska, 2011; Busso et al., 2008; Koelstra et al., 2011; Campbell, 2014; Metallinou et al., 2016	
	2	1/26			
Clinical Applications	3	1/29	Ambulatory monitoring of patients with depression	Burns et al., 2011; Gideon et al., 2016; Althoff et al., 2016	HW 1 Due
	3	1/31			
	3	2/2	Continuous glucose monitoring in diabetes	Freckman et al., 2007; Keenan et al., 2013; Plis et al., 2014; Fox et al., 2017	
	4	2/5			
	4	2/7	Stress recognition	Sano et al., 2013; Ramos et al., 2014	HW 2 Out
4	2/9				
Education/ Entertainment Applications	5	2/12	Behavioral Measures of Engagement	Hernandez et al., 2013; Whitehill et al., 2014; Poulsen et al., 2016	
	5	2/14			
	5	2/16			
	6	2/19	Automatic Pronunciation Evaluation and Feedback	Black et al., 2015; Rao et al., 2015; Lee et al., 2017	
	6	2/21			
	6	2/23	Movie & Games analytics	Yannakakis et al., 2015; Somandepalli et al., 2017	

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In-class data collection experiment	7	2/26	Experimental Design		
	7	2/28			
	7	3/2	Experimental Implementation		
Human Subjects Research	8	3/5	Subject privacy, confidentiality, and identifiable data		HW 2 Due, HW 3 Out
	8	3/7			
In-class data collection experiment (cc-ed)	8	3/9	Experimental Implementation (cc-ed)		HW 3 Due
	9	3/12-3/16	Spring break		HW 4 Out & Due
Cyber-security Applications	10	3/21	Human cognitive modeling and malware/phishing detection	Neupane et al., 2015; Yuan et al., 2017	
	10	3/23			
	11	3/26	Project Preliminary Presentations		
	11	3/28			
	11	3/30	Reading Day		
Advanced Topics	12	4/2	Personalized Human Behavioral Models	Lane et al., 2014; Martinez et al., 2017; Che et al., 2017	Project Preliminary Report Due
	12	4/4			
	12	4/6			
	13	4/9	Transfer Learning	Deng et al., 2013; Abdelwahab et al., 2015; Gideon et al., 2017	
	13	4/11			
	13	4/13			
	14	4/16	Human-Computer Interaction	Churamani et al., 2017; Rudovic et al., 2017; Sadoughi et al., 2017; Jurafski, 2017	
	14	4/18			
14	4/20	Behavioral Interpersonal Synchrony	Ireland et al., 2011; Helm et al., 2012		
15	4/23				

Section	Week	Date	Topic	Reading	Assignments
	15	4/25	Project 2 Final Presentations		Project 2 Final Report Due
	15	4/27			
	16	4/30			