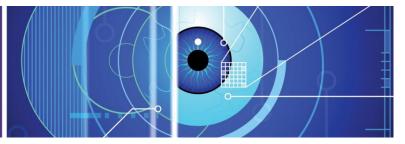
Vision Science Problems in Medical Imaging

A Research Initiative of the National Cancer Institute Basic Biobehavioral and Psychological Sciences Branch



Workshop Agenda

November 6-7, 2014 NIH Neuroscience Center 6001 Executive Boulevard, Rockville, MD

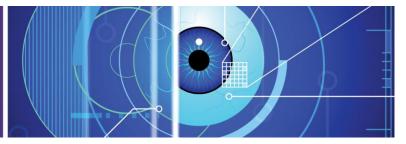
DAY 1

Time	Topic	Speaker/Moderator	
9:00 – 9:15 am	Welcome and Introduction	Todd Horowitz	
9:15 – 10:45 am	Session 1	Moderator: Lynne Padgett	
	Connectomics for Neuro-oncology	Ragini Verma	
	Context-Based Prediction in Vision	Nick Turk-Browne	
	Discussion		
	Next-Generation Tomosynthesis	Andrew Maidment	
	Expectations and Strategies in Visual Attention	Edward Vul	
	Discussion		
10:45 – 11:00 am	Break		
11:00 am - 12:30 pm	Session 2	Moderator: Kristin Litzelman	
	Imaging Methods in Pathology	Brandon Gallas	
	Perceptual Organization and Attention	Cathleen Moore	
	Discussion		
12:30 – 1:30 pm	Lunch		
1:30 – 3:00 pm	Session 3	Moderator: Rebecca Ferrer	
	Non-Imaging Medical Displays	Raj Ratwani	
	Optimizing Human Visual Search	Miguel Eckstein	
	Discussion		
	Digital Imaging in Pathology	Yukako Yagi	
	Foraging for Tumors (Apparently)	Jeremy Wolfe	
	Discussion		
3:00 – 3:15 pm	Break		



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Time	Topic	Speaker/Moderator
3:15 – 5:00 pm	Session 4	Moderator: Annette Kaufman
	Quantitative Imaging Biomarkers	Alicia Toledano
	Combining Behavioral and Computational Tools to	Gregory Zelinsky
	Address Complex Search Tasks	
	Discussion	
	Classification Images in Forced Localization Tasks Show	Craig Abbey
	the Benefit of Shepp-Logan Filtering in CT	
	Non-Human, Non-Silicon-Based Image Classifiers	Richard Levenson
	Discussion	
5:00 pm	Adjourn	

DAY 2

Time	Topic	Speaker/ Moderator
9:00 – 10:45 am	Session 5	Moderator: Vinay Pai
	Understanding Logarithmic Efficiency in Visual Search	Alejandro Lleras
	Visual Search for Malignancies in Screening	Jay Hegde
	Mammograms	
	Discussion	
	Human Factors, Neuroergonomics, and Visual Search	Matt Peterson
	Multiple Target Search Strategies	Preeti Verghese
	Discussion	
10:45 – 11:00 am	Break	
11:00 am- 12:00 pm	Determine Gaps and Priorities for Future Research	Moderator: Todd Horowitz
12:00 pm	Adjourn	

