TWO GENERAL INTRODUCTORY BOOKS

The Psychology of Attention, 2nd Ed.
http://lib.myilibrary.com/Open.aspx?id=62230

Claus Bundesen & Thomas Habekost (2008).
Principles of Visual Attention: Linking Mind and Brain

Lecture 1. Jan 6
Definition of a task: stimuli, responses, utility. \([S], [R], U=f([S]x[R]) \longrightarrow) Reals, concurrent and compound attention tasks.
Overview of attention paradigms
Classroom example of limited resources

Attending operating characteristics, iso-utility contours, optimization.

Required reading: pp 2-4 to 2-9 in

Lecture 2. Jan 13
Required background reading: Bundesen (Ch. 2)
Partial report procedures (Sperling, Averbach & Coriell), (NICOLE)
Styles, Ch. 2 (as well as BUndesen) is useful for partial report and for historical setting.
Bundesen’s model for partial report (KIER), (Bundesen & Habekost, Chapters. 3,4)
Iconic Memory (Neisser, 1967)
Auditory synchrony methods to measure visual persistence (Weichselgartner & Sperling, 1985)
Post-stimulus masking to terminate visual persistence (Sperling, 1963)
The temporal and spatial dynamics of an attention movement, spotlight theory (Shih & Sperl)
Metacontrast masking,

References:


Lecture 3. Jan 27
Spatio-temporal distribution of attention: other paradigms, feature attention,


Some temporal and spatial factors in attention

Background reading. Styles Chapter 3 with particular attention to Posner's Paradigm p.53ff

PRESENTATIONS


Lecture 5 Feb 24
Required review and prep for lecture:


Lecture 6. Mar 3


Link, S. W. The relative judgment theory of choice reaction time. Journal of Mathematical Psychology, 1975, 12, 114-135. TINKI (bare model only + example)


See http://star.psy.ohio-state.edu/coglab/People/roger/pub2.html for 100+ follow-up diffus


