

THE DESIGN AND ANALYSIS
OF INFORMATION FOR
PERCEIVING AND ACTING
(SECOND INTERNATIONAL CONFERENCE ON EVENT PERCEPTION)

VANDERBILT UNIVERSITY
JUNE 9 - JUNE 13, 1983

PROGRAM

WEDNESDAY, JUNE 8:

Branscomb Quadrangle Dormitories

1:00 - 10:00 p.m.

Registration, Check In

8:00 p.m.

Social (location to be announced)

THURSDAY, JUNE 9:

Sarratt Cinema

8:30 a.m.

Welcome

8:45 a.m.

E. J. Gibson (Cornell U.): Shedding the light of the ecological approach on differentiation and enrichment

9:30 a.m.

J. J. Jenkins (U. of South Florida): A functional approach to comprehending

10:15 a.m.

Coffee

10:45 a.m.

C. von Hofsten (U. of Uppsala, U. of Minnesota): Perception and action

11:15 a.m.

R. Shaw (U. of Connecticut) and W. Warren (Brown U.): Perceiving information for ecological action

11:45 a.m.

G. Jansson (U. of Uppsala): Visual and nonvisual guidance of walking

12:15 - 1:00 p.m.

Lunch, Branscomb Cafeteria

1:30 p.m.

~~Baynet~~ Bertenthal (U. of Virginia): ~~Multiscale~~ point-light walker displays

1:50 p.m.

S. Aitkin (U. of California, Berkeley): Perceptual development in an artificial world

- 2:10 p.m. D. Klopfer (U. of Pittsburgh): Acquisition of perceptual skill
- 2:30 p.m. W. Schiff (New York U.): Conservation of length redux: A perceptual linguistic phenomena
- 2:50 p.m. C. Granrud and A. Yonas (U. of Minnesota): Infants' sensitivity to kinetic information for spatial layout
- 3:10 p.m. J. Kennedy (U. of Toronto): Static pictures, events and catachresis: The meaning-based theory of depiction
- 3:30 p.m. L. R. Caporael (Rensselaer Polytechnic Inst.): Evolutionary context for behavior
- ~~4:30~~ 6:00 p.m. Sarratt Room 118
Poster Session (wine, beer, and refreshments available)
- S. Kramer & B. Bertenthal (U. of Virginia): SPRITE-oriented graphics
- J. Conway, E. Cochran, H. Skene, and R. Hoffman (Adelphi U.): Perceptual learning and the interpretation of thermograms
- C. Dent (U. of North Carolina): The effect of object and event information on descriptive metaphors: A developmental study
- K. Moffitt (Systems Research Labs.): The role of optical texture and visual accomodation in target detection
- S. Bergstrom (Umeä Univ.): Modulation of illumination giving a flat surface apparent three-dimensional shape and motion in depth
- E. Mingolla (Boston U.): Surface orientation and image intensities
- S. Braddon and G. Brickel (Sacred Heart U.): Role-taking and role-switching in visual event perception
- T. Bachmann (Tartu State U.; presented by J. Lappin): Ecovalidity arguments in favor of the functional fovea
- J. Doner (Circa Inst.): A conceptual operating system for cognition
- 8:00 - 12:00 Social (location to be announced)
- 9:00 p.m. Movie (Xerox): "Star: As the user sees it"

FRIDAY, JUNE 10:

Sarratt Cinema

Workshop:

The Design of Information Tools

- 9:00 a.m. Introduction
- 9:10 a.m. J. Gould (IBM): The user interface for the audio distribution system
- 9:55 a.m. M. C. Day (American Bell): Designing a troubleshooting interface for customers
- 10:25 a.m. Discussion
- 10:30 a.m. Coffee
- 10:45 a.m. G. Stikeleather (Apple Computers): Designing a people-literate interface for a personal office system
- 11:30 a.m. C. Springer and J. Sorce (Bell Labs): Accessing large database: The relationship between data entry and output evaluation
- 12:15 - 1:00 p.m. Lunch, Branscomb Cafeteria and Private Dining Room
- 1:30 p.m. C. Molgaard (Mayo Clinic and U. of California, Berkeley): Designing a database for epidemiological research
- 2:15 p.m. M. Singer (American Bell): Assessing small business office information needs
- 2:45 p.m. Discussion
- 2:50 p.m. Coffee
- 3:10 p.m. R. Mack (IBM): Development of operator training systems
- 3:55 p.m. J. Bair (Bell Northern Res.): Interface to human/computer productivity
- 4:30 p.m. Discussion
- 4:35 p.m. Wine, cheese, continued discussion

SATURDAY, JUNE 11:

Sarratt Cinema

- 11:00 a.m. G. McMillan, R. Warren, and E. Martin (Wright-Patterson AFB): The design of dynamic tactual information for perceiving and acting
- 11:25 a.m. D. Owen (Ohio State U.): Global optical information for the perception and control of one's own motion
- 12:00 - 12:30 p.m. Lunch, Branscomb Cafeteria
- 1:30 p.m. M. Braunstein and G. Anderson (U. of California, Irvine): How flexible is the rigidity principle?
- 2:00 p.m. Symposium on Perception of Faces
- C. Carello, D. Czubak, and A. Groszofsky - Dimensional analysis of facial structure
- C. Carello, R. Shaw, L. Mark, and A. Groszofsky - Facial attractiveness of optimal growth: An archetypal analysis
- J. Pittenger and L. Mark - Perceived facial attractiveness as a function of degree of orthogonality of facial curves
- R. Shaw, H. Jenkins, and L. Mark - A covariance description of perceptual information for facial archetypes
- 4:30 - 6:00 p.m. Poster Session, 118 Sarratt
- H. Jenkins: A curvilinear model for describing facial aesthetics in applications to orthodontic treatment
- W. Hallford (Ohio State U.): The specification of an object's size taken with reference to an observer's hand
- S. Handel and J. Draper (U. of Tennessee): Coming to grips with force-reflecting servo-manipulators
- R. Hoffman and S. Berg (Adelphi U.): Perceptual learning and the acquisition of a complex skill: Hand whistling
- S. Tobias and D. Owen (Ohio State U.): Useful optical variables for detecting decelerating self-motion
- L. Wolpert, D. Owen, and R. Warren (Ohio State U.): Eyeheight scaled versus ground texture unit scaled metrics for the detection of loss of altitude
- L. Hettinger, D. Owen, and R. Warren (Ohio State U.): The functional utility of optical flow acceleration
- 8:00 p.m. Social

SUNDAY, JUNE 12:Sarratt Cinema

- 8:30 a.m. G. Johansson (U. of Uppsala): About visual perception of biological motion II: The movements of trees, bushes, and herbs
- 9:15 a.m. S. Runeson (U. of Uppsala): The experimental approach to dynamic event perception
- 9:45 a.m. Coffee
- 10:05 a.m. D. Lee (U. of Edinburgh): Activating the perceptuo-motor cycle
- 10:45 a.m. S. Kelso & E. Saltzman (Haskins Labs.): A dynamical approach to coordinated action. Part I: Concepts and data. Part II: Task dynamics
- 12:15 - 1:00 p.m. Lunch, Branscomb Cafeteria
- 2:00 p.m. V. Casagrande (Vanderbilt U.): Comparative aspects of primate visual system organization
- 2:30 p.m. J. Levine (Boston ~~College~~) Color vision in aquatic environments: Do you see what I see?
- 3:00 p.m. Coffee
- 3:30 P. Machamer (U. of Pittsburgh): Ecological concerns, experimental design, and perceptual theory
- 4:00 p.m. G. Hatfield (Johns Hopkins U.): Direct versus constructivist approaches to perception
- 4:30 p.m. Commentary and Discussion -- J. Compton (Vanderbilt Univ.)
- 5:00 - 7:00 p.m. Wine, beer, continued discussion

MONDAY, JUNE 13:Sarratt Cinema

- 8:30 a.m. R. Warren (Wright-Patterson AFB): Active psychophysics and the perception of egomotion
- 8:50 a.m. R. Becklen (Swarthmore College): Using pantomime as a strategy for studying action perception
- 9:30 a.m. P. Kellman (Swarthmore College): Kinetic Subjective Contours
- 9 50 a.m. A. Kline (Iowa State U.): Information and the objects of perception
- 10:10 a.m. Coffee

- 10:40 a.m. I. Pollack (U. of Michigan): Temporal microstructural rules for repeated random auditory patterns
- 11:00 a.m. S. Bergstrom, K. Gustafsson, and J. Putaansuu (Umeå Univ.): Information about three-dimensional shape and direction of illumination from a square wave grating
- 11:20 a.m. D. Waters (Systems Science, SUNY-Binghamton): The universal enzyme model of perception and action
- 11:40 a.m. V. McCabe (U. of Connecticut): Ecological semantics: Information and meaning as dynamic form

Late Program Addendum

Saturday, June 11

- 10:45 a.m. S. Falkenberg (Eastern Kentucky U.): The concept of affordances as applied to motivation and conditioning