

Coupling Perception and Action

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Catalogue

Proceedings of the

*Fifth International Conference
on Event Perception and Action*

July 23-28, 1989
Miami University
Oxford, Ohio, USA

Instituted by the

International Society for Ecological Psychology

Organized by the

Department of Psychology and
Center for Ergonomic Research
Miami University

Program Organizers:

Cathy Dent and Leonard S. Mark
Psychology Department and Center for Ergonomic Research
Miami University

Conference Administrator:

Joan Grant
Office of Continuing Education
Miami University

The Program Organizers are pleased to recognize the advice and assistance from members of the Program Organizing Committee: **John Flach, Walter Gerbino, Joseph Lappin, David Lee, William Mace, John Pittenger, Nancy Rader, Gary Riccio, Sverker Runeson and Esther Thelen.** The preparation of the Conference Proceedings was assisted by **Cathy Luck and Angela Wiley.**

The Conference owes a very special debt to the efforts of the symposia organizers: **William Epstein and Sheena Rogers** (Perceptual Learning); **Gary Riccio and Marvin Dainoff** (Posture, Orientation and the Organism-Environment Interaction); **Thomas Stoffregen and William H. Warren, Jr.** (Information and the Control of Locomotion); **Geoffrey Bingham, Peter Beek and Bruce Kay** (Dynamical Models of Perception/Action Systems); **John Flach** (The Ecology of Human-Machine Systems); **John B. Pittenger and Cecilia Shore** (Event Cognition and the Development of Event Knowledge); **Donald Owings and Richard Coss** (Animal Behavior and Context); **James Good, Stavros Valenti and Richard van Acker** (Social Affordances and Interactions); **Joseph Lappin** (Perceiving Spatial Structure from Optical Motion); and **Klaus Landwehr** (Surface Perception).

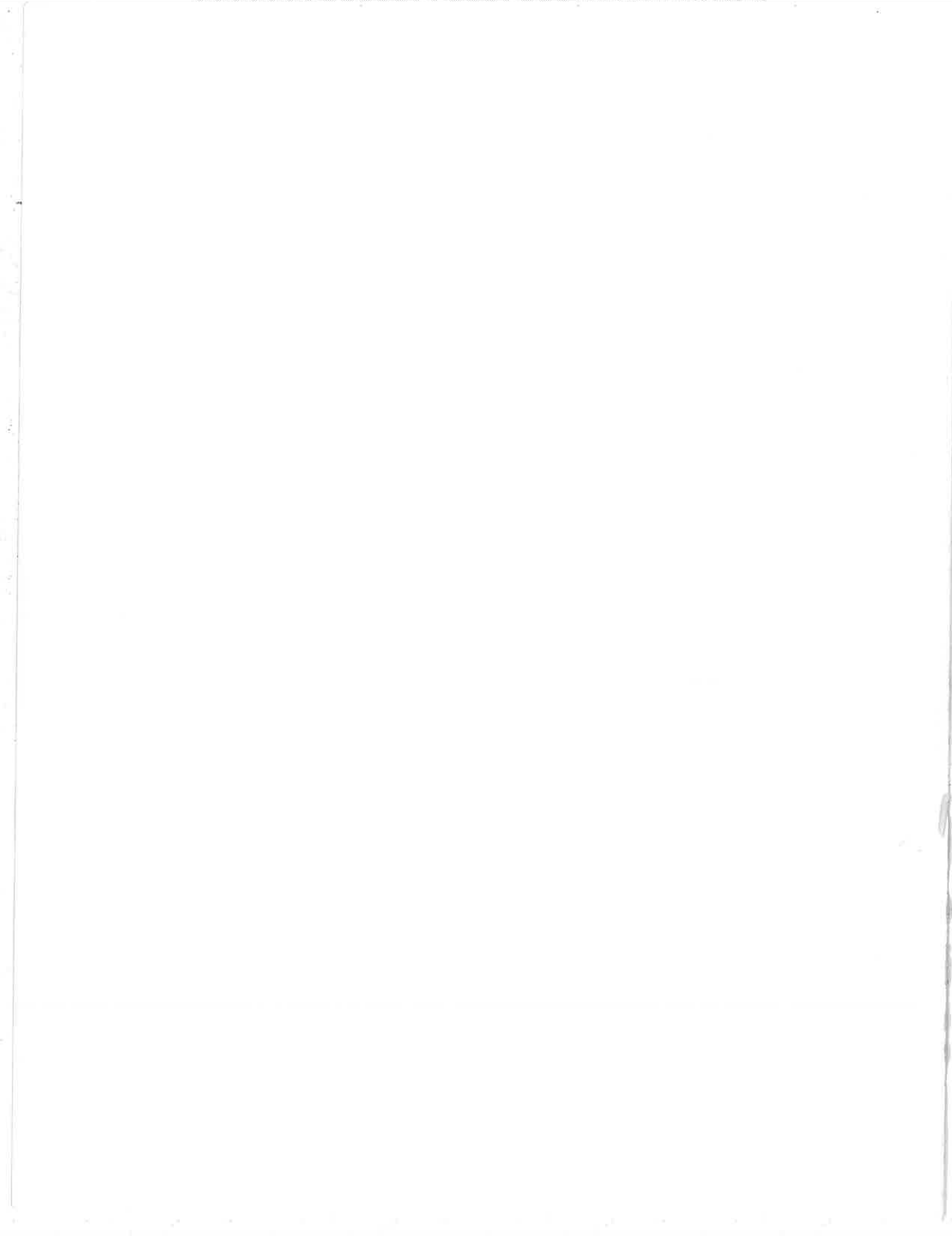
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Write Unified

Newsletter



Program

Fifth International Conference on Event Perception and Action

Miami University, Oxford, Ohio USA

July 23-28, 1989

Sunday, July 23

6:30 - Pick up of registration materials at Morris Hall

7:30 - 10:00 Opening Reception Sponsored by the Center for Ergonomic Research at Miami University.
Morris Hall, Basement Lounge

All talks will be presented in Patten Auditorium, Benton Hall. Formal coffee breaks are not built into the program in order to keep the program running on schedule. Beverages and light snacks will be available throughout each day on a serve yourself basis. The organizers will arrange for light food (fruit, cheese, crackers, etc.) and beverages to be served during the poster sessions.

Monday, July 24

8:00 Pick up of registration materials at Benton Hall

8:45 Welcoming Remarks by Dr. Paul Pearson, President, Miami University. Dr. Pearson will present an honorary degree to Dr. Eleanor J. Gibson.

PERCEPTUAL LEARNING

Organizers: William Epstein and Sheena Rogers

9:15 Eleanor J. Gibson - Perceptual Learning in Infancy: Learning to Perceive or Perceiving to Learn?

10:05 Sverker Runeson - An Invariant-Based Model for the Acquisition of Perceptual Skills

10:55 Stephen Grossberg - A Neural Network Architecture for Vision

POSTURE, ORIENTATION AND THE ORGANISM-ENVIRONMENT INTERACTION

Organizers: Gary Riccio and Marvin Dainoff

11:55 Gary Riccio - Overview

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POSTER SESSION: 12:15 - 2:00 Towers Room, Shriver Center

Perceptual Learning

Lorraine E. Bahrick - Perceptual Differentiation in Infants

Catherine Best - Phonologic and Phonetic Factors in the Influence of the Language Environment on Speech Perception

Gregory Burton, Michael T. Turvey, & H. Yosef Solomon - Perceiving Shape by Wielding

Jacqueline Gray, Ulric Neisser, Beth Shapiro, Stephanie Kouns & Marion Eppler - Observational Learning of Ballet Sequences: The Role of Kinetic Information

Loredana Hvastja & Lucia Zanuttini - Olfactory Learning in Whole Experience

L. S. Mark, J. Balliett, S. Douglas, & K. Craver - Exploratory Behavior and the Perception of Body Scaled Information

Gordon M. Redding - Prism Adaptation, Perceptual-Motor Coordination and Perceptual-Motor Learning

Jay Rueckl - Repetition Priming as Perceptual Learning

Penelope Sanderson & Sally Cohen - Functional Learning As Navigation Within An Environment of Mathematical Relations

Sandra Schneider - Fine-tuning as a Mechanism in Perceptual Learning

Sandra Trehub - Infants' Perception of Auditory Sequences

J. Terrell Tuten - The Influence of Number of Acquisition Items on Group Generation: Toward a Mathematical Description of Invariance

B. Vereijken & H. T. A. Whiting - Dynamic Coupling in Motor Learning

Posture, Orientation and the Organism-Environment Interaction

James A. Balliett & Phillip N. Goernert - Postural Stability at the VDT

Osama M. Ettouney, James A. Balliett & Marvin J. Dainoff - A Biomechanical Model for Calculating Systems Variables During Seated Posture

Michelangelo Fluckiger & Bernard Baumberger - The Evolution of Postural Response Patterns to Optical Flows

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Ellie L. Francis, D. Alfred Owens & Jiang Bai-chuan - Binocular Vergence, Accommodation and the Theory of Action Systems: The Effect of "Effort-to-See"

Kathi Kamm & Esther Thelen - The Movement Transition from Sitting to Quadruped: A Developmental Profile

Claire F. Michaels, W. A. Lee & Y.-C. Pai - A Biomechanical Analysis of Near-Maximal Bilateral Handle Pulls: Style Differences and Task Constraints

Gary Riccio, Thomas Stoffregen & Eric Martin - The Active Perception of Orientation: A New Paradigm

Gary Riccio, Thomas Stoffregen & Eric Martin - Affordances and Postural Orientation

Gary Riccio, Eric Martin & Thomas Stoffregen - The Ecological Dynamics of Perceived Orientation, Pt. I

Gary Riccio & Eric Martin - The Ecological Dynamics of Perceived Orientation, Part II

Gary Riccio & Eric Martin - The Ecological Dynamics of Perceived Orientation, Part III

Gary Riccio & Eric Martin - Symmetry and the Active Perception of Orientation

Gary Riccio & Thomas Stoffregen - A Theory of Motion Sickness Based on Postural Control

Brian Salzman, Kimberley Reardon & Gary Riccio - The Perception of Orientation Under Water

Thomas Stoffregen & Gary Riccio - A Critique of the Sensory Conflict Hypothesis of Motion Sickness

Posture, Orientation and the Organism, Environment Interaction (continued)

2:15 Donald Parker - Perception, Action and Transitions between Terrestrial and Weightless Environments

2:45 Marvin J. Dainoff & Leonard S. Mark - Instabilities in Seated Posture and the Ergonomics of Perception and Action

3:15 Thomas Stoffregen & Gary Riccio - Orientation and Motion Sickness

3:45 Robert E. Shaw - Ecological Mechanics and the Adaptive Control of Perception and Action

Perceptual Learning (continued)

4:20 Aaron Ben-Zeev - Perceptual Learning: Two Paradigms

4:40 Anne Pick & Marian Heinrichs - Perceptual Learning in Conceptual Development

5:00 Philip Kellman, Claes von Hofsten, Ramona O'Halloran & Kirsten Condry - Perceiving Motion and Stability in Infancy

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5:20 Discussion led by William Epstein and Sheena Rogers

5:40 Panel Discussion

7:00 Barbecue at a location to announced at registration.

Tuesday, July 25

INFORMATION AND THE CONTROL OF LOCOMOTION

Organizers: Tom Stoffregen and William H. Warren, Jr.

9:00 Aftab E. Patla - Visual Control of Locomotion: Strategies for Changing Direction

9:25 Gavan Lintern - Similarity for Transfer in Vehicular Control

9:50 Esther Thelen - Perception-Action Coupling in the Development of Locomotion

10:15 Discussion

DYNAMICAL MODELS OF PERCEPTION/ACTION SYSTEMS

Organizers: Geoffrey Bingham, Bruce Kay, Peter Beek

10:30 Elliot Saltzman - On Speech Production

11:00 Dragna Barac-Cikoja - Perceiving Aperture Size by Striking

11:30 Geoffrey P. Bingham & Bruce Kay - The Dynamic Duo or Double Trouble

POSTER SESSION: 12:15 - 2:15 Towers Room, Shriver Center

Information and the Control of Locomotion

Karen Adolph, Eleanor J. Gibson, & Marion Eppler - What Goes Up Does Not Always Come Down: Toddler's Perception of the Affordances of Sloping Surfaces

M. DeBari, P. Kramer, R. Growney & T. Rollin - Perception of Time to Contact as a Function of Location in the Visual Field

Michelangelo Fluckiger & Bernard Baumberger - What Do the Walker's Eyes Tell the Walker's Head

Eugene Goldfield - Infant Bouncing: Learning to Control Vertical Impulse

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Walter W. Johnson, Cynthia A. Awe, & Fred Schmitz - Inflexibility in Selecting the Optical Basis for Perceiving Speed

Gunnar Jansson - Spontaneous Locomotion of Blind Infants

Chizu Kano - The Effect of Posture on Self-Motion Perception Induced by Peripheral Visual Stimulation

Philip J. Kellman, Laurie Power & Thomas F. Shipley - Visual Interpolation in Object Perception: Evidence from a Kinematic Occlusion Paradigm

Karen Klaue - Walking into Photographed Distance

Gavan Lintern, Yeou-Teh Liu, & Anthony J. Aretz - Visual Information for Simulated Landing Approaches

Jack M. Loomis & Jose A. Da Silva - A Comparison of Different Responses to Exocentric Distance

Jean Pailhous - Unintentional Modulations of Human Gait by Optical Flow

Aftab E. Patla - Visual Control of Locomotion: Strategies for Changing Direction

T. Rollin, M. DeBari, R. Growney & P. Kramer - Perception of Heading as a Function of Window Size with Excluded Focus of Expansion

G. J. P. Savelbergh & H. T. A. Whiting - On the Primacy of Tau

T. Stoffregen & G. Riccio - Responses to Optical Looming in the Retinal Center and Periphery

Dynamical Models of Perception/Action Systems

Gregory Burton, Michael T. Turvey, & H. Yosef Solomon - Hoisington Revisited: Perceiving Lengths of Rods Simply by Holding Them

Patrick Cabe & John Pittenger - The "Bathroom Glass" Phenomenon: An Auditory Invariant for Filling Vessels

Claudia Carello, Paula Fitzpatrick & M. T. Turvey - Perceiving a Probe and Perceiving by Means of a Probe

T-C. Chan - Exterospecific Information for the Haptic Perception of Surface Location

Walter Davis - Catching

Walter H. Ehrenstein, Gabriele Heister & Peter Schroeder-Heister - S-R Compatibility and Stimulus Spacing

Oded Flascher, Claudia Carello, Robert Shaw & Dean Owen - Perceiving the Perceiving Aperture Passability Under Ego-extension Conditions

Simon Giszeter, Joseph McIntyre & Emillio Bizzi - Sensorimotor transformations in frog wiping behaviors

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Barry Hughes, William Epstein & Sandra Schneider - The Recovery of Structure from Motion via Dynamic Vibrotactile Stimulation

B. A. Kay, N. Hogan, A. Mussa-Ivaldi & E. Fasse - Perceiving the Properties of Objects Using Arm Movements: Workspace-Dependent Effects Related to the Dynamical Properties of the Arm

Nam-Gyoon Kim & Robert Shaw - Measuring the Physical Effects of Intentional Rules Expressed as Green's Operator

Virgil Mathiowetz - Effects of Environmental Affordances and Constraints on Motor Performance

K. M. Newell, D. M. Scully, P. V. McDonald, & R. Baillargeon - Task Constraints and Infant Grip Configurations

Robert Shaw, Peter Kugler, & Jeffrey Kinsella-Shaw - The Intentional Spring: An Exercise in Ecological Mechanics

Mikyong Sim, James Sullivan, & Robert Shaw A Comfort Mode Analysis of a Simple Accuracy Skill

Rod Swenson - Emergent Attractors: Clues to the Physics of Cognition

Louis Tassinari & John T. Cacioppo - Characterizing Organismic-Environmental Transactions: A Psychophysiological Approach

Paul J. Treffner - Coupling and Resonance: Insight from Dynamical Systems Modelling

B. Vereijken & H. T. A. Whiting - Dynamic Coupling in Motor Learning

Stefan Vogt - Levels of Perception-Action Coupling in Movement Imitation

Dynamical Models of Perception/Action Systems *(continued)*

2:30 **P. J. Beek & W. J. Beek** - Discrete Calculus and the Phase Plane: An Analysis of Elementary Functions

2:50 **Richard C. Schmidt** - Between Person Coordinations: Evidence for a Dynamical Basis of the Information Couplings Found in Perceiving-Acting Systems

3:10 **Reinoud J. Bootsma & Piet C. W. van Wieringen** - Toward a Dynamical Model of Perception and Action in Natural Prehension

3:30 **Yves Guiard** - Asymmetric Left-Right Partition of Labor in the Manipulation of Long-Handled and Cut and Thrust Implements

3:50 Discussion

Program for the Fifth International Conference on Event Perception and Action

Information and the Control of Locomotion (continued)

- 4:10 **John B. Pittenger** - Olfactory Guidance of Locomotion: A Comparative Analysis
- 4:28 **Christine Dunbar & Peter B. Pufall** - Children's Perception of Spatial Affordances: On Stepping Over Obstacles
- 4:46 **Eugene Goldfield** - Associated Movements During Children's Walking: Clues for Understanding Coordination
- 5:04 **Daniel Mestre & William H. Warren, Jr.** - Perception of Curvilinear Heading from Optical Flow
- 5:22 **J. C. van der Vaart & R. J. A. W. Hosman** - Motion Perception: Time-to-Contact and Manual Control in Closed Loop Tasks
- 5:40 **David N. Lee** - Ways of Coupling Action to the Environment

Wednesday, July 26

THE ECOLOGY OF HUMAN-MACHINE SYSTEMS

Organizer: John Flach

- 8:30 **John Flach** - Ecologies Beyond the Serengeti
- 8:45 **P. J. Stappers & G. J. F. Smets** - Gaps in the Optic Array: Toward Richer Operationalisations of Optic Array and Optic Flow
- 9:15 **David Woods** - The Ecology of Problem Solving
- 9:45 **Neville Moray** - Designing Human-Machine Systems: Can Ecological Psychology Help ?
- 10:15 **Peter N. Kugler** - Of Course It Can: The Ecology of the Workplace
- 10:45 **Jens Rasmussen** - Cognitive Engineering: An Ecological Frontier

EVENT COGNITION AND THE DEVELOPMENT OF EVENT KNOWLEDGE Organizers: **John B. Pittenger and Cecilia Shore**

- 11:25 **James J. Jenkins** - Some Ecological Methods for Studying Cognition
- 12:00 **Nancy Rader** - Anticipation in Infant Event Perception: Looking into the Future
- 12:35 **John T. Sanders** - Affordances: An Ecological Approach to First Philosophy

Program for the Fifth International Conference on Event Perception and Action

POSTER SESSION: 1:15 - 3:15 Towers Room - Shriver Center

The Ecology of Human-Machine Systems

Claudia Farber - An Ecological Approach to Human Factors Problems in Telecommunications

Barry P. Goettl - The Effect of Task Demands in the Perception of Object Displays

Walter W. Johnson, Cynthia A. Awe, & Fred Schmitz - Inflexibility in Selecting the Optical Basis for Perceiving Speed

C. J. Overbeeke - Spatial Hearing

Leon Segal - Affects of Spatial Organization on Crew Communications

G. J. F. Smets, M. H. Stratmann, O. A. van Nierop, C. J. Overbeeke & P. J. Stappers - Some Consequences of the Direct Theory of Perception for Training Perceptual Skills

Kim J. Vicente - Mediating Direct Perception in Complex Work Domains

Event Cognition and the Development of Event Knowledge

Lynn H. Augsbach & Cathy Dent Children's Knowledge of Dental Health Events

C. Castelfranchi & M. Miceli - From Direct Perception of Affordance to Cognitive Evaluation through Emotional Appraisal

Cathy Dent & John Pittenger - Kinds of Events: Taxonomies of Event Words

Barry Hughes, William Epstein & Sandra Schneider - The Recovery of Structure from Motion via Dynamic Vibrotactile Stimulation

Marketta Kytta - Children's Cognitive Representations of their Home Environment

Hilary Horn Ratner & Linda Hill - Young Children's Use of Temporal Sequence in Event Recall

Michael Montgomery, Edward S. Reed, Myrna Schwartz, Nathaniel Mayer & Carolyn Palmer - The Organization of Everyday Action II: The Moss Action-Coding System

John Pickering - Discrete Symbols and Continuous Reality

Chris Schmidt - From Perception to Convention: Learning What Words Afford

Penelope Sibun - Modeling Humans' Descriptions of Living Space

G. J. F. Smets & P. J. Stappers - The Difference Between Colour Blindness and Defective Colour Perception

Program for the Fifth International Conference on Event Perception and Action

J. Terrell Tuten - The Influence of Number of Acquisition Items on Group Generation: Toward a Mathematical Description of Invariance

Event Cognition and the Development of Event Knowledge *(continued)*

3:30 Tom Burke - Invariants and Affordances in Dewey's Theory of Inquiry

3:55 John Pickering - Affordances Are Signs

4:20 Rod Swenson - Emergent Attractors: Clues to the Physics of Cognition

4:45 Steven J. Trierweiler - The Temporal Lines of Affordance, Perception, and Recollection of Important Interpersonal Events: Personal Memories in Psychotherapy

5:10 Nathaniel Mayer, Michael Montgomery, Carolyn Palmer, Edward S. Reed & Myrna Schwartz - The Organization of Everyday Action I: A Conceptual and Methodological Analysis (presented by Edward S. Reed)

Thursday, July 27

ANIMAL BEHAVIOR AND CONTEXT

Organizers: Donald Owings and Richard Coss

9:00 Meredith West & Andrew King - Ecological Chemistry

9:30 Emil Menzel - Why Insight in Animals Is Not a Fog

10:00 John Fentress - Hierarchical Contexts in the Sequencing and Development of Behavior

SOCIAL AFFORDANCES AND INTERACTION

Organizers: James Good, S. Stavros Valenti & Richard van Acker

10:30 James M. M. Good, Arthur Still & S. Stavros Valenti - Culture and the Mediation of Human Affordances: An Agenda for the Ecological Social Psychology of the 1990s

10:50 Katherine A. Loveland - Discovering the Affordances of the Human Environment: Examples from Autism

11:25 Thomas Lombardo - The Evolution of Madness: An Ecological Interpretation of Psychopathology and Therapy

11:50 Discussion

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POSTER SESSION: 12:15 - 2:15 Towers Room, Shriver Center

Animal Behavior and Context

Patricia Arrowood - Ecology and Social Contexts of Duetting in Canary-Winged Parakeets, *Brotogeris v. versicolorus*

John Pickering - Ecological Psychology and the Re-appearance of the Organism

Matthew Rowe & Donald Owings - The Information Afforded by Rattlesnake Rattles: A Study of Risk Assessment by California Ground Squirrels

W. Thomas Tomlinson & Timothy D. Johnston - Hamsters Represent Spatial Information Derived from Olfactory Cues

Social Affordances and Interactions

Thomas R. Alley & Kornelia A. Torbahn - The Perception of Facial Aging by Preschool Children: Detection of Age and an Age-related Social Affordance

Frank J. Bernieri - Artifacts in Naive Judgments of Movement Coordination and Their Controls

Diane S. Berry - The Development of Sensitivity to Information in Facial Events

Charles Blaich - Social Evolution: Selection For or Against?

Dean Owen - An Affordance Theory Analysis of Cartoon Humor

Jo Ann Pallay & Shawn Parman - An Ecological Perspective on Object Relations and Transference Issues Within the Therapeutic Relationship

Chris Schmidt - From Perception to Convention: Learning What Words Afford

Lawrence W. Sherman - Task-related Behaviors of Children and Teachers: An Affordance Perspective

Stavros Valenti - Interpersonal Synchrony in Human Social Walking

Rick Van Acker & S. Stavros Valenti - How to Study Face to Face Social Interaction: An Ecological Analysis of Initial Social Encounters of Children with Mild Handicapping Conditions

R. E. A. van Emmerik & P. V. McDonald - Phase-Transitions in Multiple Degrees of Freedom Limb Movements

B. Vereijken & H. T. A. Whiting - Dynamic Coupling in Motor Learning

Brian Zaff - Super-Vision: Perceiving Affordances for Other People

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Patricia Goldring Zukow - Socializing Attention: The Relation between Social Affordances and the Emergence of the Early Lexicon

Animal Behavior and Context *(continued)*

2:30 **Donald Owings** - Communication, Levels of Meaning, and Context

2:48 **Richard Coss** - Evolutionary Persistence and the Contextual Modulation of Antisnake Behavior

3:06 **David Miller** - Alarm Call Responsivity of Mallard Ducklings: Lessons from the Pillsbury Doughboy

3:24 **Robert Lickliter** - Overlooking the Obvious: The Role of Social Context in the Development of Early Perceptual and Social Preferences in Avian Neonates

3:42 **Timothy Johnston** - Context, Constraint, and Development in the Evolution of Animal Behavior

Social Affordances and Interactions *(continued)*

4:10 **Charles Lemery** - An Ecological Approach to Social Perception and Interaction: Theory, Methods and Initial Investigations

4:25 **Dankert Vedeler** - Object Directedness as an Informational Basis for the Perception of Infant Intentionality

4:40 **Jacqueline Gray, Ulric Neisser, Beth Shapiro, Stephanie Kouns & Marion Eppler** - Observational Learning of Ballet Sequences: The Role of Kinetic Information

4:55 **Dennis P. Waters** - Linguistic Specification of Affordances

5:10 Discussion

Friday, July 28

PERCEIVING SPATIAL STRUCTURE FROM OPTICAL MOTION

Organizer: Joseph Lappin

8:30 **Brian Rogers** - Invariant Information for the Perception of 3-D Surface Structure

9:00 **Myron L. Braunstein** - Perspective and Nonperspective Interpretations of 3D Motion from 2D Projections

9:30 **Gunnar Johansson** - A New Approach to the Theory of Visual Space Perception

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10:00 **Mary Kaiser** - Comparative Psychophysics for the Perception of Rotation and Translation in 3D Space

SURFACE PERCEPTION

Organizer: Klaus Landwehr

10:30 **Avrum Stroll** - A Philosopher's Approach to Surfaces

11:00 **Kent Stevens** - Surface Shape, Integration of 3D Cues and Computational Problems

11:30 **H. A. Sedgwick** - Perceptual Interactions Between the Picture Surface and the Pictured Spatial Layout

POSTER SESSION: 12:15 - 2:15 Towers Room, Shriver Center

Perceiving Spatial Structure from Optical Motion

Barbara Borzel, John M. Findlay, James M. M. Good - The Perception of Point-Light Displays in Peripheral Vision: Is There an Advantage for Biological Motion?

Giorgio Ganis, Clara Casco, and Sergio Roncato - Rigid and Nonrigid Kinetic Depth Effect Depends on Different Motion Processes

Joseph Lappin, J. Farley Norman & Lyn Mowafy - Detecting Geometric Components of Optical Flow

Lyn Mowafy, Randolph Blake & Joseph S. Lappin - Detection and Discrimination of Coherent Motion

Timothy Petersik - Does the Short-Range Process Contribute to the Perception of Structure from Motion

Surface Perception

Karen Adolph, Eleanor J. Gibson, & Marion Eppler - What Goes Up Does Not Always Come Down: Toddler's Perception of the Affordances of Sloping Surfaces

Nicola Bruno - Occlusion Events and the Perception of Surfaces

T-C. Chan - Exterosppecific Information for the Haptic Perception of Surface Location

Marco Davi, Baingio Pinna & Marco Sambin - The Role of Completion in the Formation of an Occluding Illusory Surface

Walter Gerbino & Nicola Bruno - Transparent Surfaces Under Changing Illumination

Loredana Hvastja & Lucia Zanuttini - Sea and Ski: Phenomenal Appearance and Behavioural Affordances

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Merja Kettula & Gote Nyman - Image Reconstruction in Pointillist Paintings

Takashi Kozaki, Aiko Kozaki, Shigeji Soga & Mami Fukuda - On Rigidity of Anomalous Surface Measured by Apparent Movement

Klaus Landwehr - The Ecology of Surfaces and Surface Layouts and How to Study It

J. Farley Norman, Joseph S. Lappin & Steven Zucker - Stereoscopic Discrimination of Smooth vs. Discontinuous Surface Structure

Shin Nozawa - Segregation of Figure and Ground

George C. Oluike - Perception of Slope Against an Inclined Background: A Mathematical Analysis

Baingio Pinna - An Illusion of Angularity

Francene D. Reichel & James T. Todd - Perceptual Depth Inversion of Smoothly Curved Surfaces

Penelope Sibun - Modeling Humans' Descriptions of Living Space

Shigemasa Sumi - Perceptual Organization in Temporal Sequence of Events

Perceiving Spatial Structure from Optical Motion (continued)

2:30 Joseph Lappin - Geometry of Optical Information about Environmental Structure

3:00 Dennis Proffitt, Irvin Rock & Mark Schmuckler - Visual Bases of the Stereokinetic Effect

3:30 James T. Todd - Discriminability of 3D Structures in Kinetic Depth Displays

Surface Perception (continued)

4:00 Klaus Landwehr - The Ecology of Surfaces and Surface Layouts and How to Study It

4:15 Nathan Knobler - Perception and Action in Figure Drawing

4:45 Rainer Guski - Auditory Perception of Space: Is a Ground Surface Necessary

5:15 Discussion

7:30 Banquet at Marcum Conference Center. Banquet address by Michael T. Turvey.

