

SCIENTIFIC PROGRAM

Conference Room: New York, Palm Beach Hotel

SUNDAY, OCTOBER 19

16.00-19.00 Registration (Conference Hotel Lobby)

MONDAY, OCTOBER 20

10.00 Assembly

10.30-12.00 Opening Session

10.30 Opening Address

Welcome to Fechner Day 2003

Birgitta Berglund

Stockholm University & Karolinska Institutet, Sweden

11.00 Keynote Address

The [Square] Root of All Evil

Eugene Galanter, Columbia University, USA (p. 91)*

12.00-14.00 LUNCH

14.00-17.00 Theme Session I:

What Do We Know?: The Quest Revisited

Chair: Robert Teghtsoonian, Smith College, USA

14.10 *Putting context effects into context*

Martha Teghtsoonian, Smith College, U.S.A.;

R. Teghtsoonian (p. 309)

14.30 *Context effects in the scaling and discrimination of size*

Helen Ross, University of Sterling, UK (p. 257)

14.50 *Perceptual ratios, differences, and the underlying scale*

Wolfgang Ellermeier, Aalborg University, Denmark; L. Narens & B. Dielmann (p. 71)

15.10-15.40 COFFEE BREAK

15.40 *A model of ratio production and estimation and some behavioral predictions*

R. Duncan Luce, University of California, U.S.A.;

R. Steingrimsson (p. 157)

16.00 *Metapsychophysics: some 'Big' questions and*

tentative answers

Lawrence Ward, University of British Columbia, Canada (p. 337)

16.20 *General discussion*

19.00 EVENING Reception

*(p. n) = page number in the proceedings

TUESDAY, OCTOBER 21

10.00-12.00 Theme Session II:

Perception of Complex Events and Brain Activity

Chairs: Marina Pavlova, University of Tübingen, Germany & John C. Baird, Psychological Applications, USA

10.10 *Mapping the cortical substrates of biological motion perception: associations and dissociations*

Philip Servos, Wilfrid Laurier University, Waterloo, Canada (p. 287)

10.30 *Aspects of visual perception and cognition in the avian brain*

Lucia Regolin, Padova University, Italy;
G. Vallortigara (p. 245)

- 10.50 *Engagement of periventricular parietal regions in biological motion processing*
Marina Pavlova, University of Tübingen, Germany; A. Sokolov, M. Staudt, N. Birbaumer, P. Enck, &
I. Krägeloh-Mann (p. 229)
- 11.10 *Multisensory processing and meg gamma-activity*
A. Sokolov, Braunschweig University of Technology, Germany; M. Pavlova, W. Lutzenberger, &
N. Birbaumer (p. 303)
- 11.30 *General Discussion*
- 12.00-14.00 LUNCH
- 14.00-17.00 Poster Session– *See pages 4-7 of this program*
- 17.00-18.30 ISP Business meeting

WEDNESDAY, OCTOBER 22

9.30-12.00 Theme Session III:

Confidence in Psychophysical Judgment

Chair: Douglas Vickers, University of Adelaide, Australia

- 9.40 *C. S. Peirce, confidence and random walk theory*
Stephen Link, University of California & McMaster University, U.S.A. (p. 151)
- 10.00 *Confidence ratings in wine assessment*
Ana Garriga-Trillo, UNED, Spain; P. Muro &
J.M. Merino (p. 97)
- 10.20 COFFEE BREAK
- 10.50 *Calibration of response times and confidence in perception and cognition*
William Petrusic, Carlton University, Canada (p. 235)
- 11.10 *Confidence and response time in three-category judgment*
Douglas Vickers, University Adelaide, Australia (p. 325)
- 11.30 *General Discussion*
- 12.00-14.00 LUNCH
- 14.00-17.10 Theme Session IV:
- #### ***Applied Cognitive Psychophysics***
- Chair: Ana Garriga-Trillo, UNED, Spain
- 14.10 *Auditory psychophysics in the light of perceptual-cognitive context effects*
Viktor Sarris, Johan-Wolfgang-Goethe-Universität, Germany (p. 269)
- 14.30 *Familiarity, visual complexity and age of acquisition bias: the assessment of semantic deterioration in Alzheimer's patients*
Francisco J. Moreno, UNED, Spain; Perais, H. (p. 193)
- 14.50 *Client's perception of the service received in travel agencies*
Cristina Esteban Alberdi, Universidad Autonoma de Madrid, Spain; L. Rubio Andrada & J.M. Rodríguez
Antón (p. 77)
- 15.10 COFFEE BREAK
- 15.40 *Choosing a vacation spot using Borg's scale:
A collective action perspective*
Itziar Alberdi, UNED, Spain (p. 7)
- 16.00 *Evaluation procedure for inconsistent multi-attributes decision-making - representability of inconsistent
preference relation by the use of evaluation structure*
Syoei Ishizu, Aoyama Gakuin University, Kanagawa, Japan; Gehrman, A. (p. 127)
- 16.20 *Cognitive maps of Toledo, Spain*
Ana Garriga-Trillo, UNED, Spain;

E. Alonso-Gasa & L. Herrero-Arjona (p. -)

16.40 *General Discussion*

THURSDAY, OCTOBER 23

9.00-12.00 Theme Session V:

Perceptual Separability: A Confluence of Structure and Process in Methodology, Theory and Experimentation

Chair: James T. Townsend, Indiana University, USA,

- 9.10 *Stochastic modeling of stroop stimuli processing: a puzzle*
Daniel Algom, Tel-Aviv University, Israel;
A. Eidels & J.T. Townsend (p. 13)
- 9.30 *Disentangling the components of a multiplicative function for apparent duration*
Joseph Glicksohn, Bar-Ilan University, Israel (p. 109)
- 9.50 *Modeling the inhibition of a saccadic eye movement*
Hans Colonius, University of Oldenburg, Germany; A. Diederich (p. -)
- 10.10 COFFEE BREAK
- 10.40 *Testing perceptual separability: from theory to data to theory*
Helena Kadlec, University of Victoria, Canada;
J.T. Townsend (p. 133)
- 11.00 *General recognition theory and probabilistic perceptual separability on simple cognitive surfaces*
James T. Townsend, Indiana University, USA;
M. Fific & A. Assadi (p. 315)
- 11.20 *General Discussion*
- 12:00-14.00 LUNCH
- AFTERNOON Open Program
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POSTER SESSION

TUESDAY, OCTOBER 21, 14.00-17.00

A Multitude of Psychophysics

Chair: Gunnar Borg, Stockholm University, Sweden

ACTIS GROSSO, ROSSANA

Re-discoveries in perception: towards a database
(co-author: S. Vezziani) (p. 1)

Alves, Nelson T.

Perception of facial expressions of emotion and brain lateralization
(co-authors: S.S. Fukusima & J. A. da Silva) (p. 17)

Ben-David, Boaz

The emotional stroop effect is a generic reaction to threat, not a selective reaction to specific semantic categories
(co-authors: L. Levy & D. Algom) (p. 21)

Berglund, Birgitta

Soundscapes perceived by children and adults
(co-authors: Ö. Axelsson & M.E. Nilsson) (p. 199)

Borg, Elisabet

The multidimensional character of perceived exertion for a maximal and sub-maximal cycle ergometer test (p. 31)

Borg, Gunnar

An index for relations between perceptual magnitudes based on level-anchored ratio scaling (p. 37)

- Casco, Clara
The relation between saliency of motion and form
(co-authors: A. Grieco & E. Giora) (p. 43)
- Clara, Elena
Spontaneous preference for symmetrical stimuli in visually naïve chicks (co-authors: C. Agrillo,
L. Regolin, & G. Vallortigara) (p. 47)
- Cools, Valentina
The role of context in category scaling: placing anchors at equal distances
(co-authors: J. Hofmans, S. Baekelandt, O. Mairesse, M. Strubbe, & P. Theuns) (p. 53)
- Diederich, Adele
The time-window-of-integration model of multisensory integration in visual-tactile saccade generation
(co-author: H. Colonius) (p. -)
- Ehm, Werner
Analysis of a stochastic version of the 'klepsydra model' (co-author: J. Wackermann) (p. 59)
- Eisler, Anna
Perception of global risks: A human ecological approach (co-authors: H. Eisler & M. Yoshida) (p. 65)
- Elliott, Mark A.
Engendering anticipation using periodic stimuli, implications for temporal models of inner psychophysics (p. -)
- Fitousi, Daniel
Automaticity versus attention in the processing of two-digits numerals
(co-authors: E. Chajut & D. Algom) (p. 83)
- Gidlöf Gunnarsson, Anita
Utilizing noise sensitivity in longterm to shortterm noise annoyance model
(co-authors: B. Berglund & M.E. Nilsson) (p. 103)
- Hellström, Åke
Word-order effects in preference comparison (p. 121)
- Kang, Jian
Soundscape and acoustic comfort in urban open public spaces
(co-authors: W. Yang & M. Zhang) (p. 139)
- Kuelzow, Nadine
Reaction times and probability of stimulus detection in areas of residual vision after brain damage
(co-authors: I. Mueller & B.A. Sabel) (p. 145)
- Lachmann, Thomas
Functional coordination deficit in children with developmental dyslexia (co-author: S. Fuchs) (p. 87)
- Lachmann, Thomas
Mental rotation of letters in dyslexics and implications for diagnosis and educational treatment
(co-authors: S. Rusiak & P. Jaskowski) (p. 263)
- Lindblom, Ulf
Assessing warmth and cold intensities at different body areas with thermal rollers (p. -)
- Mairesse, Olivier
Objective assessment of subjective sleepiness using category-ratio scaling: a preview
(co-authors: W. Cools, M. Strubbe, R. Cluydts, & P. Theuns) (p. 163)
- Marconato, Fabio
Spontaneous preference for point-light biological motion displays in newly hatched chicks
(co-authors: L. Regolin & G. Vallortigara) (p. 169)
- Martín, Rocío

- Children's assessment of school soundscape*
(co-authors: I. López-Barrio & J.D. Guillén) (p. 175)
- Matsushima, Elton
Evidences for an interpretation of modulus of power function for spatial visual perception tasks
(co-authors: N.P. Ribeiro-Filho & J.A. da Silva) (p. 181)
- Monahan, John S.
The vocal reverse stroop effect: interference and congruity (co-author: S. M. Sheffert) (p. 187)
- Näätänen, Risto
The mismatch negativity (MMN): an objective measure of sound discrimination and auditory sensory memory
(p. -)
- Nilsson, Mats E
Noise sensitivity and soundscape perception
(co-author: A. Nougo) (p. 205)
- Oberfeld-Twistel, Daniel
Modeling the effects of forward-masker level on the loudness of a tone (p. 211)
- Oliveira, Armando M. de
Do valence and arousal prompt the same or different ERP components? Pointing towards an inner psychophysics (co-authors: I.B. Fonseca, M. Teixeira, & E.R. Sanots) (p. 217)
- Paramei, Galina
Size induction: A judgment-order effect
(co-authors: J. Hamada & W.H. Ehrenstein) (p. 223)
- Plank, Tina
Discrimination of temporal loudness profiles
(co-author: W. Ellermeier) (p. 241)
- Rondinoni, Carlo
Stereoscopic sensitivity and stimuli selection in visual search (co-author: C. Galera) (p. 251)
- Roussel, Marie-Eve
Attention preparation and duration discrimination
(co-authors: S. Grondin, T. Rammsayer, & P-L. Gamache) (p. 115)
- Sartori, Riccardo
The effect of prior stimulus information upon category ratings
(co-author: M. Tommasi) (p. 275)
- Scharf, Bert
Induced loudness reduction: correlations between ears and procedures
(co-authors: B. Nieder, S. Buus, & Y. Cazals) (p. 281)
- Shaki, Samuel
Instruction interference and the semantic congruity effect (co-author: W.M. Petrusic) (p. 293)
- Shendyapin, Valentin M.
Formal neurons approach for sensory judgments modeling (co-author: I.G. Skotnikova) (p. 299)
- Travieso, David
Psychophysical functions of the combining effects of Müller-Lyer and horizontal-vertical illusions
(co-author: M. Suero) (p. 319)
- Wackermann, Jiri
The 'klepsydra model' of internal time representation
(co-authors: W. Ehm & J. Späti) (p. 331)
- Zheng, Li
Odor and sensory irritation perception in women with chemical sensitivity

(co-authors: B. Berglund & I. Johansson) (p. 25)

Zimmer, Karin

Validity of Luce's transformation function relating numerals and numbers in loudness fractionation (p. 343)