29th Annual Meeting of the International Society for Psychophysics



Conference schedule

Conference venue:

Hotel Rheingold

Eisenbahnstr. 47, 79098 Freiburg i. Br.

Tel. +49 (0)761 28210

info@rheingold-freiburg.de

www.rheingold-freiburg.de

Note: All conference sessions and the business meeting of the ISP will be held in *Hotel Rheingold*. Opening Ceremony (Monday, Oct 21) will take place in *Historisches Kaufhaus*, Münsterplatz 24, 79098 Freiburg. Gala Dinner (Thursday, Oct 24) will take place in *Restaurant Dattler*, Am Schlossberg 1, 79104 Freiburg.

Monday, October 21

15:00 – 18:00 Registration

18:30 – 22:00 Opening Ceremony in *Historisches Kaufhaus*

Tuesday, October 22

08:45 – 09:00 Welcome & Announcements

09:00 – 10:45 Theme session 1 (organized by M. Wittmann)

Effects of movement, emotion, and embodiment on the perception of time

D. Zakay, G. Mioni: Movement and speed associated with a stimulus affect the estimation of its duration

Zh. Shi: From eye to hand: Implicit enaction expands subjective tactile duration

J. L. O. Bueno, F. C. Nather: Aspects of emotional contents and movement perception on subjective time experience

A. Giersch, C. Duval, R. L. Capa: Temporal order judgments are impaired in patients with schizophrenia: A link with emotional withdrawal?

10:45 – 11:15 Coffee break

11:15 – 12:45 Free talks 1

Y. Nakajima et al.: Perceptual processing of pairs of acoustically marked time intervals: Correspondence between psychophysical and electrophysiological data

T. Kishida, Y. Nakajima, K. Ueda: Effects of elimination of power-fluctuation factors from critical-band noise-vocoded speech

J. R. Schoenherr, J. Logan: Attention and working memory as determinants of identification thresholds for non-native speech sounds

L. Fostick, H. Babkoff: *Individual differences in auditory spectral temporal order judgments*

12:45 – 14:00 Lunch break

14:00 – 15:45 Theme session 2 (organized by W. Skrandies)

Perception, cognition, and human brain electrical activity

W. Skrandies: Perception, cognition, brain activity: Introductory remarks

J. Kornmeier, M. Bach: EEG correlates of multistable perception

W. Skrandies: Electrophysiological studies on perception and learning

Th. Koenig et al.: Agency and ownership are independent components of auditory-verbal self-monitoring

H. Witte: Methodological aspects of connectivity analyses of the neuromatrix of pain

15:45 – 16:15 Coffee break

16:15 – 18:00	Poster session 1 [List of individual presentations on page 7]
18:30 – 20:00	Social program: Guided tour through historical Freiburg

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Wednesda	y, October 23
08:55 – 09:00 09:00 – 10:45	Announcements Theme session 3 (organized by H. Atmanspacher) Complementarity in cognition H. Atmanspacher: Order effects in sequential measurements of non-commuting psychological observables J. Busemeyer: Quantum models of cognition and decision P. beim Graben: Complementarity in cognition entailed by bounded rationality
	Th. Filk: The relevance of Bell-type inequalities for mental systems
10:45 – 11:15 11:15 – 12:15	Coffee break Plenary lecture by Gary Hatfield Why does perceptual realism matter?
12:15 – 12:45 12:45 – 14:00	Group photograph Lunch break
14:00 – 16:00	 Theme session 4 (organized by D. Oberfeld) Estimating the sensitivity in discrimination tasks: Recent challenges and advances R. Ulrich, D. Vorberg: Estimation of discrimination performance in 2AFC tasks: Pitfalls and improved estimators Å. Hellström, Th. H. Rammsayer: Weber Fractions and Time-Order Errors for long and short durations: Implications for modeling R. Balk, F. Klöckner, D. Oberfeld: A new look on "order effects" and sensitivity in two-interval discrimination tasks: Decisions weights and internal noise O. Dyjas, K. M. Bausenhart: Mechanisms of stimulus discrimination: Evidence from the Type B effect M. A. García-Pérez, E. Peli: An "I can't tell" response option prevents artifactual overestimation of the difference limen in bisection tasks R. Alcalá-Quintana, M. A. García-Pérez: Effects of criterion changes on estimates of the difference limen
16:00 – 16:30 16:30 – 18:15	Coffee break Poster session 2 [List of individual presentations on page 8]

Thursday, October 24

- 08:40 08:45 Announcements
- 08:45 10:45 Theme session 5 (organized by D. Kleinböhl)

System identification in the psychophysical assessment of nociception

- D. Kleinböhl: On the road to system identification: Psychophysical assessment of nociceptive mechanisms
- J. R. Buitenweg, H. G. E. Meijer: *PalNSIGHT: Evaluation of nociceptive* function from a system theory perspective
- R. J. Doll, H. G. E. Meijer, J. R. Buitenweg: Multiple threshold tracking methods for improved observation of nociceptive function
- H. Yang, H. G. E. Meijer, J. R. Buitenweg: System identification of the nociceptive function
- J. L. Hay, G. J. Groeneveld: The evaluation of nociceptive function during early clinical drug development
- 10:45 11:15 Coffee break
- 11:15 12:45 Free talks 2
 - J. Townsend, K. Salibayeva: Let's face it: Attempted incipient unification of differential geometric and dynamic concepts of facial expressions
 - W. Ehm, J. Wackermann: Hyperbolic geometry of Ehrenstein-Orbison type illusions
 - H. Colonius, E. N. Dzhafarov: Ultrametric Fechnerian scaling
 - E. N. Dzhafarov, H. Colonius: G. Th. Fechner: Correcting historical misrepresentations
- 12:45 14:00 Lunch break
- 14:00 15:30 Free talks 3
 - S. Link: The circle of similarity
 - V. Shakuf, D. Algom: Who neglects base rate, perceivers or investigators: The effect of base rate on Stroop and Garner effects
 - T. L. Hubbard: Is the flash-lag effect a special case of representational momentum?
 - M. A. Elliott et al.: Golden Section effects in visual cognition: A signature for complex-system organization?
- 15:30 16:00 Coffee break
- 16:00 17:15 ISP Business meeting
- 18:45 22:00 Gala Dinner in Restaurant *Dattler* on the Schlossberg

Friday, October 25

09:10 – 09:15 Announcements

09:15 – 11:00 Special symposium (organized by J. Wackermann and H. Siemsen)

Ernst Mach's legacy: Psychophysics and beyond

K. Thoma: Ernst Mach – examples of his scientific work in the area of applied physics and measurement techniques

M. Heidelberger: Mach on Helmholtz on acoustics

E. C. Banks: Mach on 'monocular stereoscopy'

J. Wackermann: Mach's concept of phenomenological science, and its relevance for psychophysics

11:00 – 11:30 Coffee break

11:30 – 12:45 Special symposium (cont'd)

B. Henning: Mach and Schlick on simplicity in science

K. H. Siemsen: Mach at younger ages, his research on psychophysics, his subsequent world view and his contribution to education

H. Siemsen: Psychophysics as world view: Ernst Mach's sensualism, gestalt and erkenntnis-theory

12:45 – 14:00 Lunch break

14:00 – 15:30 Free talks 4

B. Estner, Th. Lachmann: Spatial representations of numerical and nonnumerical quantities in the auditory domain: Pitch and number

Th. Schmidt: Measuring unconscious cognition without unconscious stimuli: Beyond the zero-awareness criterion

P. Hannan, E. Galanter: A psychophysical approach to early human development

V. Sarris: The relational psychophysics paradigm: "Task switching" and data variability in comparative-developmental studies

15:30 – 16:00 Coffee break

16:00 – 17:30 Free talks 5

F. Müller et al.: Quantifying mental strain required to carry out everyday activities: German, Japanese and Canadian students

T. Jauhiainen, D. Schaffrath: Yrjö Reenpää and psychophysics

R. Luccio: The 'alley problem': A neglected debate on size-distance invariance in the XVII and XVIII centuries

H. E. Ross, G. L. J. Schönbeck: *The excursions of Galileo Galilei (1564–1642) into the moon illusion*

17:30 – 17:45 Farewell & closing

- 1 R. Bååth, G. R. Patching: Separating predictive responses from reactive responses in isochronous finger tapping using Bayesian hierarchical modelling
- 2 J. Birkenbusch, W. Ellermeier, F. Kattner: Octuplicate this interval! Empirical evaluation of the monotonicity, commutativity and multiplicativity of ratio productions of duration
- 3 N. Borter, S. Troche, Th. H. Rammsayer: A fixed-links modeling approach to elucidate measurement impurity in reaction time data
- 4 J. L. O. Bueno, A. Parreira: Effects of syntactic and semantic information in music composition on subjective perception of time
- 5 A. Calderon et al.: Birds of a feather who flock together still don't assimilate
- 6 E. A. Firmino, J. L. O. Bueno: Musical tonal modulation between minor keys and subjective time
- 7 D. Fitousi: Object-based attention: A General Recognition Theory approach
- 8 L. Fostick: Short-term learning effect in different psychoacoustic measures
- 9 P. Hannan: A case study of time perception in the high level gymnast
- 10 E. Hasuo et al.: The filled duration illusion with the method of adjustment when filled vs. empty comparison intervals are used
- 11 G. Mioni, F. Stablum, S. Grondin: Spatial compatibility in duration discrimination with manual and vocal responses
- 12 N. Nunberg, D. Algom: Stand by your Stroop: The Stroop effect decreases in a standing position
- 13 S. Parker et al.: Context effects in estimates on objective scales: Scale distortion?
- 14 G.R. Patching, R. Bååth: Assessing response times and force of responses to the size and brightness of visual stimuli
- 15 P. Poncelet, A. Giersch: *Implicit coding of the temporal structure of events*
- 16 Th. H. Rammsayer, M. Verner: On the effect of nontemporal stimulus magnitude on perceived duration as assessed by the method of temporal reproduction
- 17 B. Schneider, M. Avivi Reich, M. Mozuraitis: *Detecting and measuring auditory-cognitive interactions in speech recognition*
- 18 V. Shakuf, F. Kutzner, K. Fiedler: A fresh look at an old concept: Selective attention to aspects of a stimulus
- 19 D. B. Terhune, S. Russo, R. Cohen Kadosh: Visual cortex GABA predicts perceived duration
- 20 K. Ueda, Y. Nakajima, T. Fujioka: Factor analyses of power fluctuations in spoken sentences of eight languages: Analyses of individual data
- 21 A. Vallesi et al.: Cultural modulations of space-time compatibility effects
- 22 K. M. Varadarajan: Anti-mirror neuron system model for affordance based k-TR Common Coding Theory
- 23 M. Verner, Th. H. Rammsayer: *Does perceived duration depend on physical and numerical stimulus magnitudes?*

- 1 R. Actis-Grosso, P. Ricciardelli: *Static faces, dynamic bodies: The recognition of emotions in typically-developed individuals and high-functioning autistic adults*
- 2 E. Borg, G. Borg: How well does the Wong-Baker FACES scale identify the variation of pain?
- 3 E. Borg: Perception of blackness as a training material for the Borg CR100 Scale®
- 4 J. C. Gonçalves et al.: A Functional Measurement approach to the Child Anxiety and Pain Face Scale
- 5 T. Gur, L. Niv, D. Algom: Losing ground: The perception of height is affected by the makeup of the ground beneath
- 6 T.L. Hubbard, S.E. Ruppel: Effects of contrast and background on visual representational momentum
- 7 E. A. Marsja et al.: Maintenance of the distractive effect of deviating vibrotactile stimuli in a cross-modal oddball paradigm
- 8 I. C. Martins, A. M. Oliveira, B. Steenbergen: *Motion extrapolation in people with motor constraints: Evidence for embodiment*
- 9 I.C. Martins, A. M. Oliveira, B. Steenbergen: Representational momentum in people with cerebral palsy: Effects of response format and delay imposed on the response
- 10 T. Miyaoka: Measurements of distinguishing abilities of clothed buttocks
- 11 J. S. Monahan: Intermediate effects of spatial training women's Mental Rotation Test scores
- 12 A. M. Oliveira et al.: Metric effects of taking tears out of the Wong-Baker Faces Pain scale
- 13 J. Schlittenlacher, A. Kern, W. Ellermeier: Extracting salient perceptual features of machinery noise using triadic comparisons
- 14 J. R. Schoenherr: The centrality of psychophysics to psychology: A Hephaestian paradigm
- 15 V. M. Shendyapin: Computational modeling of correct responses proportion among confident ones in "greater-lesser" task
- 16 N. G. Shpagonova, V. A. Sadov, D. L. Petrovich: Storage: The standard features in memory
- 17 A. C. Silva, A. M. Oliveira: Faces contextualized by faces: The similarity effect in face-context integration
- 18 I.G. Skotnikova: Visual discrimination asymmetry: Decision making criterion, time order error
- 19 R. M. Tristão et al.: Habituation versus sensitization to pain by newborns
- 20 M. Vicovaro et al.: Randomly interleaved staircases and "acceptance tresholds" in computer graphics experiments
- 21 M. Wagner, T. Elbaum: Haptic sensation elicited by visual stimulation: The "feeling by seeing" procedure

Note: In order to save print space, author lists longer than three names are abbreviated to the first author's name + et al. Complete lists of author names and their respective affiliations are given in the Proceedings book.