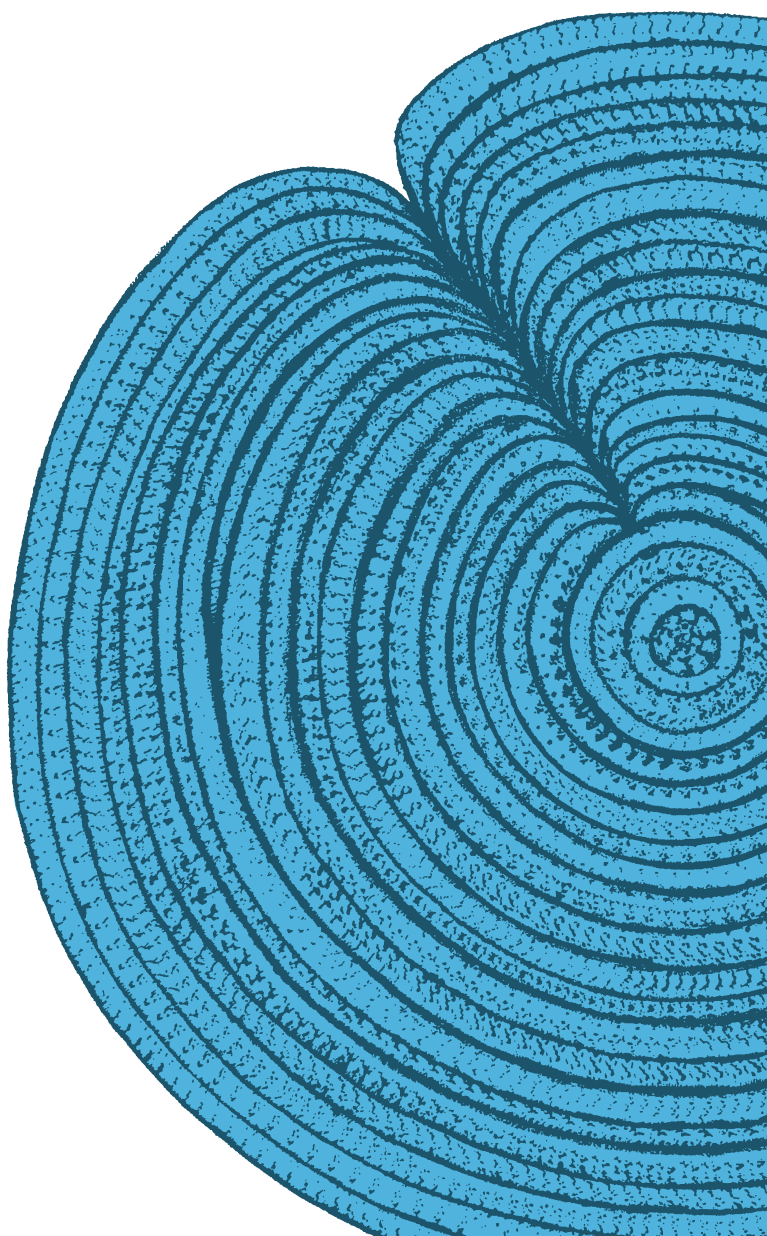




UNIVERSITÀ
DEGLI STUDI DI TRIESTE
Department of Life Sciences
Psychology Unit *Gaetano Kanizsa*

TSPC2016

Proceedings of the
Trieste Symposium on Perception and Cognition
November 4



edited by
Paolo Bernardis
Carlo Fantoni
Walter Gerbino

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Preface

This book of proceedings collects the abstracts of talks and posters presented at the *Trieste Symposium on Perception and Cognition* 2016, organized by the Psychology Unit of the Department of Life Sciences, University of Trieste, and held at campus on the 4th of November.

This year TSPC2016 did also include the 24th annual *Kanizsa Lecture*, which has been delivered, as a special event fitting into the long tradition of *Kanizsa Lectures* opened in 1993 by Irvin Rock (see The Kanizsa Lectures list).

The TSPC2016 book of proceedings opens with the abstracts of the 24th Kanizsa Lecture held by the 2016 invited speaker W. Tecumseh Fitch, Department of Cognitive Biology, University of Vienna, Austria.

A second contribution of the TSPC2016 book includes abstracts from the "Roundtable Comparative Perception: A tribute to Professor Mario Zanforlin" (Organizer: Cinzia Chiandetti). The roundtable featured 5 key speakers – Osvaldo Da Pos, Yegor Malashichev, Christian Agrillo, Daniel Osorio, and Meta Virant-Doberlet - in the field of comparative perception and cognition honouring the memory of Professor Mario Zanforlin, who has recently passed away. The invited speakers show that the comparative perspective with which to look at various phenomena that has been Mario's approach will continue to prompt works in the broad fields of perception and cognition. Osvaldo Da Pos, worked on aggressive behaviour and steroid hormones in human and non-human species but later he focused on perception and specifically on colour perception. His main contribution has been the application of the model of transparency to chromatic colours. Within this roundtable, he witnessed the everlasting bond between Padova and Trieste and discussed about the relationship between Stimuli and Context in perception. Yegor Malashichev, works on lateralization and his contribution follows the guidelines of the true European ethological school: observing an organism in its own environment. From

reptiles to whales, from frogs to kangaroos he showed that humans aren't all that unique and claimed about Mother-infant lateral biases in humans and wild animals: conservatism of the phenomenon and its benefits for fitness. Christian Agrillo, after studying biological motion in the chicks, has specialized on numerical representation running experiments with different animal species and recently has started to investigate visual illusion in animals. Christian presented his latest studies in monkeys and fish. Daniel Osorio, studies colour vision and object recognition by observing different animal species from butterflies to primates. He has also investigated symmetry perception in the chick with two influential Mario's students, Lucia Regolin and Giorgio Vallortigara. Daniel is involved in animal welfare and is part of a team writing the guidelines for the use of cephalopods. In his talk, he provides insights on How Cuttlefish see objects. Meta Virant-Doberlet studies vibrational communication in insects. She investigates this intriguing, and unsuspected, signalling trying to respond to all 4 Tinbergen's questions and has presented "A day in a life of a bug linguist".

The third part of the volume collects abstracts of talks and posters presented at regular oral and poster sessions of TSPC2016.

Each abstract published in the proceedings has been evaluated by an anonymous expert reviewer and by the organizers. The list of anonymous reviewers who supported the editorial process is reported in the next section.

About 54 active participants gathered at TSPC2016, coming from Italy and other European countries (Serbia 7, Germany 2, Greece 1, Slovenia 1, Hungary 1). It featured 9 talks and 45 posters. The book of proceedings includes written reports of all talks, and 40 out of 45 posters. Several areas of cognitive science were covered, including: perception (talks 4, 6, 8; posters 4, 5, 17, 24, 27, 29, 36); mindfulness (talk 1); action and perception (talk 6; posters 4, 19, 22, 30, 34); attention (posters 7, 29); memory (talk 3, 7; posters); learning (poster 17); development (posters 14, 23, 25, 31, 33); language (poster 13, 39); problem solving and reasoning (poster 20); personality (posters 11, 18, 25); decision-

making (poster 20); concepts and categorization (talks 2; poster 4, 16, 33, 38, 39); social cognition (talk 4, 5; posters 6, 9, 40); animal cognition (talk 9; posters 1, 3, 8, 15, 36, 37); neuropsychology (poster 2, 10, 12, 22, 26, 28, 35, 38); rehabilitation (posters 22); developmental disorders (posters 2, 5, 10, 12); applied psychology (poster 7, 21, 28, 30, 32, 34); executive processes: monitoring, inhibitory control (posters 7, 14, 18, 23, 35);

In terms of disciplines, contributions included modelling, behavioral experiments with humans and animals, cognitive neuroscience, linguistics, philosophy, and vision.

We thank all authors who submitted an abstract to be included in the proceedings, and the reviewers who supported the editorial process with their fast and constructive reactions.

Finally, for their institutional and financial support to TSPC2016 we thank the Department of Life Sciences and the PhD program in Neural and Cognitive Sciences of the University of Trieste.

Paolo Bernardis
Carlo Fantoni
Walter Gerbino
organizers and editors

and Cinzia Chiandetti

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Index

The 24th Kanizsa Lecture

W. Tecumseh Fitch

The Biology of Speech - 50 Years of Progress

The Kanizsa Lectures

Comparative Perception roundtable: a tribute to Mario Zanzorin (presentation order)

R01. Da Pos O

Stimuli and context in perception

R02. Malashichev Y

Mother-infant lateral biases in humans and wild animals: conservatism of the phenomenon and its benefits for fitness

R03. Agrillo C

Optical illusions as a tool to understand visual perception in monkeys and fish

R04. Osorio D

How Cuttlefish see objects

R05. Virant-Doberlet M

A day in a life of a bug linguist

Talks (presentation order)

T01. Giraldo T

Mindfulness for dummies?

T02. Coricelli C, Toepel U, Bielser ML, Murray MM, Rumiat RI

Distinct brain representations of natural and manufactured foods: a spatio-temporal brain dynamics investigation

T03. Dalmaso M, Castelli L, Scatturin P, Galfano G

Microsaccadic rate is shaped by working memory load

T04. Marković S, Bulut T

Attractiveness of the female body: Preference for average or supernormal?

T05. Shamloo SE, Carnaghi A, Piccoli V, Grassi M, Bianchi M

Look and Imagine Yourself Giving that Same Touch: The Role of Intergroup Vicarious Physical Contact in Racial Prejudice Revision

T06. Stefanović M, Tošković O

Object stability estimation – Effects of aspect ratio and body position

T07. Talamini F, Altoè G, Carretti B, Grassi M

Musicians have a better memory than nonmusicians: a meta-analysis

T08. Todorović D
A distance-dependent size perception paradox

T09. Rose J
Exploring the Cognitive Capacity of birds.

Poster (alphabetical order)

P01. Antoniol A, Caputi A, Chiandetti C
*Evidence of population level-lateralization in a non-social crustacean, the crayfish *Procambarus clarkii**

P02. Athanasakis E, Faletra F, Stefanucci MR, Licastro D, Gerbino W, Lonciari I, Faletra F
Genetic analysis of developmental dyslexia in an Italian cohort: preliminary data

P03. Baiocchi V, Chiandetti C
Chicks run harder toward a consonant over a dissonant clucking hen: Biological roots for the appreciation of consonant sounds

P04. Baldassi G, Prpic V, Goodridge C, Agostini T, Fantoni C and Soranzo A
Does the dimensionality of the perceived size play a role in the SNARC-like effect for visual illusions?

P05. Barbiero C, Burani C, Carrozzi M, Lonciari I, Ronfani L, Gerbino W
Typography and dyslexia: A comparison between adults and children with dyslexia

P06. Bastiani F, Saurel-Cubizolles MJ, Romito P
Help seeking process among women who sought help at an Anti-violence Centre.

P07. Bencich E, Gamboz N, Di Blas L, Brandimonte MA
New insights into the phenomenon of Mind Wandering during everyday driving

P08. Caputi A, Gerbino W, Giulianini PG, Chiandetti C
Habituation of the alertness response in crayfish is modulated by stimuli with socially relevant information

P09. Cmiljanović M, Zdravković S
Social distance as a measure for Uncanny Valley Effect

P10. Cossovel C, Träff U, and Passolunghi MC
Cognitive profiles of children with Dyslexia with and without dyscalculia

P11. De Caro EF, Di Blas L
Daily fluctuations in food craving, mood, and body dissatisfaction

P12. De Dea F, Zanusi C, Carrozzi M, Accardo A
EEG connectivity in sleep spindles of ADHD children

P13. De Martino M, Mancuso A, Esposito F, Di Salle F, Elia A, Vietri S and Laudanna A
Inflecting regular and irregular verbs: preliminary neuroimaging data from the three Italian conjugations

P14. De Vita C, Costa HM, Passolunghi MC
ANS acuity, mathematical ability and inhibitory control: A longitudinal perspective from First to Second grades

P15. Dissegna A, Turatto M, Chiandetti C
Context matters: Domestic chicks' short- and long-term habituation of freezing to a sudden acoustic stimulus

P16. Drammis LM, Brandimonte MA
The development of space-time and space-number associations: The role of concrete vs. abstract representations

P17. Galliussi J, Gerbino W, Bernardis P
The modulation of primary task difficulty in a fast-TIPL paradigm

P18. Gorjup R, Bernardis P, Grassi M, Gerbino W
Approaching behavior and state anxiety influence vigilance performance in a high cognitive load task

P19. Horoufchin H, Bzdok D, Buccino G, Borghi AM, Binkofski F
The body of language

P20. Marcatto F, Tognolli G, Plet S, Zorzetto N, Del Missier F
When the whole is less than the sum of its parts: Individual idea generation outperforms group brainstorming

P21. Martinčić R, Di Blas L, Pelamatti GM, Penolazzi B, Mariani M
Mental health budget as a tool to contrast disease chronicity: Preliminary findings of a longitudinal study on autonomy development

P22. Mezzarobba S, Grassi M, Catalan M, Pellegrini L, Valentini R, Krüger B, Manganotti P, Bernardis P
Multisensory Action Observation a promising tool to improve freezing of gait in Parkinson's disease: preliminary data.

P23. Moretti L, Caiani G, Vallesi A
Processing speed, cognitive reserve and paradigm mediate task switching performance across the life span

P24. Nedimović P, Zdravković S
Effect of largest illumination area on lightness of an object

P25. Pellizzoni S, Suklan S, Passolunghi MC
Anxiety and math skills which relations? A longitudinal study in the third year of primary school

P26. Prenassi M, Rossi L, Marceglia S
Assessing the feasibility of using a commercially available bracelet to detect motor symptoms for home telemonitoring in patients with Parkinson's disease.

P27. Radovic T, Markovic S
Role of emotional and perceptual features in visual search task

P28. Roman-Pognuz E, Penolazzi B, Gerbino W, Manganotti P, Monti F, Berlot G
SSEP N20 amplitude as an early predictor of neurological outcome in cardiac arrest survivors treated with therapeutic hypothermia

P29. Rossi F, Zuliani E, Montanaro E, Lopiano L, de'Sperati C
Our poor sense of video speed

P30. Sors F, Murgia M, Lath F, Bader A, Agostini T
Listen carefully! The importance of auditory cues in anticipating volleyball serves

P31. Stojković A, Milosavljević N
How children tell a lie: gender and school achievement differences in children's lie-telling

P32. Struzzo P, Marcatto F, Ferrante D, Allamani A, Scafuri F
Alcohol dependence in the Italian general population: diagnostic criteria according to general practitioners and to the CIDI (Composite International Diagnostic Interview)

P33. Szabó E, Kovács AM
Understanding nonexistent negation in 18 and 24-month-olds

P34. Tamburini L, Fantoni C, Gerbino W
Simulated Driving and the Question-Behavior Effect

P35. Terenzi D, Catalan M, Antonutti L, Furlanis G, Manganotti P, Rumiati RI, Aiello M
Reward sensitivity in impulse control disorders in Parkinson's disease

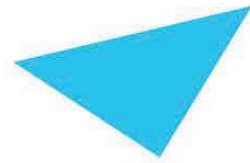
P36. Toso A, Fassihi A, Pulecchi F
Unified framework for the perception of stimulus intensity and stimulus duration in humans and rats

P37. Venditti A, Caputi A, Chiandetti C
Mind the obstacle: Lateralization of detour behaviour in two invertebrate species

P38. Vignando M, Aiello M, Eleopra R, Manganotti P, Rumiati RI
Brain Signatures of Food Semantic Knowledge

P39. Zarl F, Gerbino W
Membership kind and format modality in schema categorization

P40. Zotti D, Carnaghi A, Piccoli V, Bianchi M, and Pelamatti G
Sexual prejudice, inter-group contact and homophobic school climate as determinants of school staff responses to homophobic bullying



THE TWENTY-FOURTH KANIZSA LECTURE

W. TECUMSEH FITCH

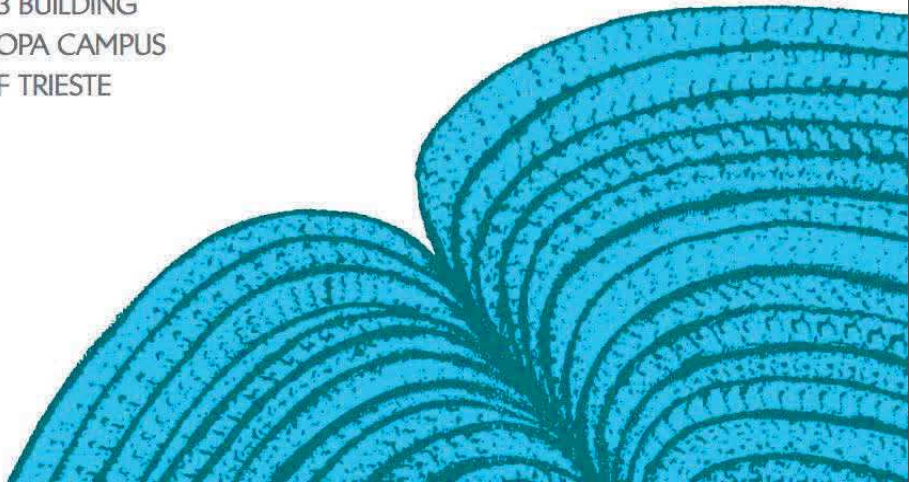
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#

Daily Fluctuations in Food Craving, Mood, and Body Dissatisfaction

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Keywords: food craving, mood, body dissatisfaction, within-person dynamics, daily fluctuations

Need for eating food irregularly across the day or food craving depends on several variables [1]. When individual differences are examined, food craving is typically associated with negative mood, body image, body dissatisfaction, and self-esteem, in both clinical and non-clinical samples [2]. Less is known however on how mood, body dissatisfaction, and food craving covariate daily, when within-person fluctuations are inspected.

Aim of the present study was to explore how variation in food craving across the day is associated with fluctuations in positive mood, negative mood, and body dissatisfaction, in a non-clinical sample of adults. The participants ($N = 24$, 12 males, 6 of them on a diet, 12 females, 5 of them on a diet) reported 3 times per day (11 am, 4 pm, 9 pm), for 7 days, on their present positive (7 adjectives) and negative mood (13 adjectives, selected from “Profile of Mood States”- POMS, and “Positive and Negative Affect Schedule”- PANAS), body dissatisfaction (9 items, selected from EDI-2 and EDAM, for both males and female), and food craving (7 items, selected from FCQ-T [3]). Data were analyzed via multi-level modeling; repeated measures were centered within-person, that is, they were centered on individual means.

Results showed a covariation between food craving and body dissatisfaction, with higher levels of food craving being reported when participants referred higher dissatisfaction with their body shape (fixed effects: intercept = 1.87, $p < 0.001$; slope = 0.35, $p < 0.001$), and vice versa, with poorer control over food craving favoring momentary increases in body dissatisfaction (fixed effects: intercept = 2.28, $p < 0.001$; slope = 0.17, $p < 0.001$). Fluctuations in food craving were also negatively associated with positive mood, but in participants on a diet only, with a significant second-level interaction effect between Positive Mood and Being on a diet ($p < 0.05$). No association emerged when fluctuations in negative mood and food craving were inspected.

The present study shows that food craving and body dissatisfaction covary also when momentary fluctuations are observed [2]. Contrary to results observed in between-people studies, the present within-person study suggests that food craving and negative mood are not associated [1]. Rather, control over food craving increases positive mood, and vice versa, thus suggesting that positive mood might effectively work as a protective factor over food craving in people on a diet. A larger sample is needed to confirm the present findings.

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