Welcome

Welcome to the 15th International Multisensory Research Forum. This year's IMRF is held in the building of Royal Tropical Institute, a beautiful historical building in the center of Amsterdam, The Netherlands.

The KIT-building was designed by J.J. van Nieukerken in 1911. Because of the war it took till 1926 before the building was finished and openend by Queen Wilhelmina of the Netherlands. The building shows a Neorenaissance style with a lot of rich decorations, which were made by more than ten sculptors. Since the opening, the KIT-building houses the Royal Tropical Institute, which is an independent centre of knowledge and expertise in the areas of international and intercultural cooperation.

We are delighted to annouce keynote talks by inspiring and outstanding researchers in the field: Prof. Dr. Wolf Singer (Max Planck Institute for Brain Research, Frankfurt am Main, Germany) and Prof. Dr. Elia Formisano (Department of Cognitive Neuroscience and Maastricht Brain Imaging Center, Maastricht University, The Netherlands).

Finally, we are grateful to all those who have helped us organise this conference in one way or another: the members of the Advisory Board, the (student) volunteers, and our sponsors. Last but not least, we thank all participants: we hope you will enjoy the conference and your stay in Amsterdam!



Conference Organisers



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Mirjam Keetels, Tilburg University, The Netherlands



Durk Talsma, Ghent University, Belgium



Irene Kuling, VU Amsterdam, The Netherlands

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- Salvador Soto-Faraco ICREA & Parc Cientfic Barcelona, Spain

- Charles Spence Department of Experimental Psychology, University of Oxford, United Kingdom

- Yiti Suzuki Research Institute of Electrical Communication, Tohoku University, Japan

- Mark T Wallace Vanderbilt University, United States



Erik van der Burg, University of Sydney, Australia

General information

Locations

The main conference site is the Royal Tropical Institute in Amsterdam. In the Great Hall will be the venue for the talks and symposia, it is not allowed to eat or drink in this room. The poster sessions, coffe breask and lunches will be in the Marble Hall.



Internet

The internet in the Royal Tropical Institute is unfortunately very limited. For those who want to try: Network: KITCONGRES

Password: 5432154321

Registration & Information

Registration will possible on Monday June 10th during the welcome reception in restaurant Ekeko (19:30-22:00) or on Tuesday morning from 08:00-09:00 at the registration desk at the conference venue. For general questions during the conference, the desk will be opened in the lunch breaks.

Instruction for presenters

Symposium: The time slot for Symposium presentations is 20 minutes including time for questions.

Talks: The time slot for the presentations in the Talk sessions is 15 minutes including time for questions.

AV Information: Computer (PC) and projector will be provided in the meeting rooms. Please bring your presentation on USB stick (key), it is not necessary to send it in advance. Your presentation should be uploaded in the meeting room for at least 10 minutes before the session starts. Technical staff will be there for your help. Please prepare your presentation in MS PowerPoint. The newest version of the program will be uploaded on the computers (that can also handle the presentations made by earlier versions). You can use your own Machintosh for presenting, but please bring the appropriate converter for the projector with you.

Poster: Please prepare your poster with the following maximum dimensions: Format: Portrait (A0) — Width: 80 cm — Height: 120 cm We will provide material for fixing the posters. Each poster space will be numbered (numbers are found before the title in this programma book). Put your poster in the correct space. Poster will be displayed in the Marble Hall (upper floor) and in the lobby. You can put up your poster from 08:00 on your presentation day, and you must remove it before 18:00 on that same day.

Business meeting

The business meeting will be held from 12:15-13:15 on Thursday in the Grand Hall. All participants are very welcome to attend.

Special Issue

We are happy to announce there will be a special issue on Multisensory Processing published in Experimental Brain Research following the IMRF 2014 conference in Amsterdam. Submissions will be accepted from all who are interested, but preference will be given for speakers participating and presenting their work at the IMRF 2014. The submission deadline and details will be announced soon.

Student awards

We would like to congratulate the following students for winning the student awards: Tali Shrem's, Jonathan Wilbiks, Daria Kvasova, Arit Glicksohn.

Social events

Welcome drinks - Monday June 10th

On June 10th from 19:30-22:00, there will be reception with drinks in the Ekeko restaurant in the Royal Tropical Museum. The entrance of Ekeko is just around the corner of the conference venue.

Lunch in Artis - Friday June 13th

On Thursday, lunch will be provided in **Artis Royal Zoo**, which is situated close to the Royal Tropical Institute.

The entrance of Artis is located at the Plantage Kerklaan, which is a walk of about 10-15 minutes from the conference venue. The closest exit of Artis is only 5 minutes walk. This exit is located in the corner of the park, behind the pinguins and the aquarium.



Figure 1: Map of the area around the KIT. The blue arrows indicate the entrance of Artis Royal Zoo and the exit closest to the conference venue. The start of the canal cruise and Ekeko can also be found on the map.

Canal cruise and dinner - Friday June 13th

The canal cruise to the social dinner will start in the canal just outside the Royal Tropical Institute. This sightseeing cruise lasts about 75 minutes and will go through the canals of Amsterdam. From the boat multiple highlights can be seen. The boats will depart at 18:15. Dinner will be at the IJ-kantine, which is on the north side of the IJ. After dinner you can take the free ferry back from the NSDM-werf to Amsterdam Central station (ca. 10 minutes).



Figure 2: Map of the centre of Amsterdam with the locations of the conference and social events highlighted.

Keynote speakers

Thursday, 16:45 - 17:45

Prof. Dr. Wolf Singer

Max Planck Institute for Brain Research, Frankfurt am Main, Germany

Perceptual Coherence and Distributed Coding: Convergence in Time Rather than Space?

Electrophysiological and fMRI based investigations suggest a high degree of parallel, distributed processing both within and across sensory modalities. This processing strategy is supported by a connectome in which principles of reciprocity and re-entry prevail. Mechanisms will be discussed that could enable dynamic routing of signals across the rigid backbone of dense anatomical connections, allow the rapid formation of functional networks in a goal and context dependent way and assure the coherence of polymodal percepts.



Saturday, 13:15 - 14:15

Prof. Dr. Elia Formisano

Department of Cognitive Neuroscience and Maastricht Brain Imaging Center, Maastricht University, The Netherlands

The computational architecture of the human auditory cortex.

Functional neuroimaging research provides detailed observations of the response patterns that natural sounds (e.g. human voices and speech, animal cries, environmental sounds) evoke in the human brain. The computational and representational mechanisms underlying these observations, however, remain largely unknown. Here, I will present research combining ultrahigh field (7 Tesla) functional magnetic resonance imaging (fMRI) with computational modeling to reveal how natural sounds are represented in the human brain. With novel machine learning methods, we use fMRI data to compare competing models of sound representations and re-construct the sounds' spectrogram and wave-



form from brain activation patterns. Our results show that the cortical encoding of natural sounds entails the formation of multiple representations of sound spectrograms with different degrees of spectral and temporal resolution. We suggest that this multi-resolution analysis is crucially relevant for flexible and behaviorallyrelevant sound processing and may constitute one of the computational underpinnings of functional specialization in auditory cortex. Finally, I will discuss ongoing work examining the computational architecture of the human auditory cortex at the level of cortical columns and layers.

Detailed scientific program Wednesday June 11th

Symposium – 09:00 - 10:40

Multisensory Perception for Motor Control Claudio Brozzoli & Lucilla Cardinali

- Multisensory properties in monkey medial PPC, Patrizia Fattori
- Visuotactile prediction in peripersonal space, Christian Dijkerman
- Plasticity in body representation for action in amputees, Tamar Makin
- Proprioceptive recalibration following visual-tactile stimulation for tool-use, $Lucilla\ Cardinali$
- Peripersonal space in parieto-frontal areas, Claudio Brozzoli

Talk session – 11:00 - 12:15

Developmental and Clinical

- An examination of the neural unreliability thesis of autism for visual and somatosensory evoked responses, *John Butler*
- Modeling stable individual differences in the McGurk effect across stimuli, John Magnotti
- Neural correlates of multisensory auditory-tactile Braille reading in early blinds; an fMRI study, *Yasaman Nojaba*
- Development of optimal reaching strategies by integrating estimates of internal noise and external costs, *Tessa Dekker*
- Ample but indiscriminate averaging of sensory cues in children: children use irrelevant visual cues in spatial tasks, *Karin Petrini*

Poster session - 13:30 - 15:00

Poster session l

- see poster overview, p.14

Talk session – 15:00 - 16:30

Temporal multisensory processing I

- Inverse effectiveness in audiovisual rhythm perception involving visual biological motion, *Yi-Huang Su*
- Synaesthetic congruency modulates temporal ventriloquism effect in dyslexia, Lihan Chen
- Audio-visual asynchrony exposure changes sensitivity for temporal synchrony: adaptation in relative timing mirrors adaptation in vision., *Warrick Roseboom*
- Multisensory experience shapes unisensory processing, Ladan Shams
- A model-based comparison of three theories of audiovisual temporal recalibration, *Kielan Yarrow*
- Rapid temporal recalibration is unique to audiovisual stimuli: no effects for audiotactile or visuotactile stimuli, *Erik van der Burg*

Talk session – 16:45 - 17:45

Audiovisual speech

- Audiovisual speech comprehension is out of synch, *Elliot Freeman*
- Genetically mediated differences in the McGurk effect a multisensory speech illusion, *Beauchamp Michael*
- Early Maximum-Likelihood Estimation as a model of audiovisual integration of speech, *Tobias Andersen*
- Sound symbolism is not universal: A phonological/tonological basis for matching speech-sounds to shapes, *Suzy Styles*

Detailed scientific program Thursday June 12^{th}

Symposium – 09:00 - 10:40

What are Crossmodal Correspondences? Laurence Harris & Michael Carnevale

- The ontogeny of visual-tactile processing in rodents: mechanisms and behavioral relevance, *Ileana Hanganu-Opatz*
- The midbrain circuit mediating the development and plasticity of multisensory integration, *Benjamin Rowland*
- Cross-modal enhancement of auditory cortex function, Patrick Kanold
- Flexible integration of spatial information depends on developmental vision, *Tobias Heed*
- Impairment of auditory spatial perception in congenitally blind children and adults, *Monica Gori*

Talk session – 11:00 - 12:15

Body & Learning

- Knowledge of hand configuration without knowledge of hand location, $Medina\ Jared$
- Auditory-tactile induced changes in represented leg height when dropping a ball, Ana Tajadura-Jimnez
- Visual induction of somatosensory blurring, Flavia Cardini
- Perceptual learning in the dark: A combination of real and virtualreality training for blind navigation via a novel sensory substitution device, *Daniel-Robert Chebat*
- Improving audio-visual temporal perception through perceptual training: A magnetoencephalography (MEG) study, Jason Chan

Symposium – 13:15 - 14:55

What are Crossmodal Correspondences? Laurence Harris & Michael Carnevale

- What is the direction of up provided by "high" and "low" tones?, Laurence Harris & Michael Carnevale
- Audio-visual and audio-spatial correspondences, Ophelia Deroy
- Taste-shape correspondences, Charles Spence
- Crossmodal correspondences between touch and vision in shape perception: similar neural coding schemes?, *Jeff Yau*
- What is the origin of cross-modal correspondences?, Cesare Parise & Marc Ernst

Talk session – 15:15 - 16:00

Multisensory Processing

- The capacity of audiovisual integration, Christian Olivers
- Recalibration of auditory space following sequences of multisensory events, $Catarina\ Mendona$
- Fine sensitivity of orientation discrimination around vertical and horizontal results from both gravity and variable neural sensitivity, *David Burr*

Student session -16:00 - 17:00

Student Award session

- Endogenous spatial attention modulates the temporal window of audio-visual interactions, *Daria Kvasova*
- Electrophysiological predictors of the dynamic capacity of audio-visual integration, *Jonathan Wilbiks*
- Spatial and intermodal attention hierarchies: does task set matter?, *Talia Shrem*
- Multisensory information benefits statistical learning, Arit Glicksohn

Detailed scientific program Friday June 13th

Symposium – 09:00 - 10:20

Demistifying the Contribution of Attentional Control Mechanisms Pawel J. Matusz

- Speech gestures and attention, Salvador Soto-Faraco
- How relevance matters: Top-down control of processing of audiovisual objects involves changes in brain response, *Pawel J. Matusz*
- Individual alpha peak frequency predicts and drives the temporal profile of the sound-induced double-flash illusion, *Vincenzo Romei*
- Slow down! Something important might come: Expectancy increases attention span through low-frequency phase reset, *Sanne Ten Oever*

Talk session – 10:45 - 12:00

Neuroscience

- On the same wavelength: alpha-synchronization improves visual-motor coordination, *Marcia Grabowecky*
- Congruency matters: cortical processing of olfactory-visual integration, $Kathrin \ Ohla$
- Auditory-visual interactions in brain and behaviour using simple stimuli, $Quoc\ C\ Vuong$
- Voluntary action triggers rhythmic oscillations of visual contrast sensitivity, $Alice\ Tomassini$
- Inactivation of ventral prefrontal cortex impairs audiovisual but not visual working memory, *Bethany Plakke*

Poster session -13:30 - 15:00

Poster session ll

- see poster overview, p.19

Symposium - 15:00 - 16:20

Superior Temporal Regions: Slave or Master? Catherine Perrodin & Antonia Thelen

- Auditory and audiovisual specificity for processing communication signals in the temporal lobe, *Catherine Perrodin*
- Right superior temporal region activation during auditory-visual object processing: Epiphenomenon or key role player?, Antonia Thelen
- Visual speech processing in the left posterior STS is enhanced by auditory expectations, *Helen Blank*
- The spatial organization of the multisensory human superior temporal sulcus (STS) at different spatial scales: an fMRI study at 3 and 7T, *Francesco Gentile*

Keynote - 16:45 - 17:45

Keynote Lecture Prof. Dr. Wolf Singer

- Perceptual Coherence and Distributed Coding: Convergence in Time Rather than Space, *Wolf Singer*

Detailed scientific program Saturday June 14th

Symposium – 09:00 - 10:20

Synaesthesia: New Findings and Implications for Underlying Mechanisms Daphne Maurer

- A comparison of perceptual narrowing in adults with and without synaesthesia, *Daphne Maurer*
- Brain oscillations during perceptual closure and top-down processing in synaesthetes and schizophrenia patients, *Tessa van Leeuwen*
- What tells synesthetes apart from non-synaesthetes?, Romke Rouw
- Feeling of the touch and pain of others: disruption of a self-other gating mechanism?, *Jamie Ward*

Talk session – 10:45 - 12:15

Temporal Multisensory Processing II

- Infants can perceive asynchronies in audiovisual speech, Heather Bortfeld
- Multisensory interactions in early sensory cortex measured using functional near-infrared spectroscopy (fNIRS), *Ian Wiggins*
- When does multisensory integration disturb visual processing?, Sang Wook Hong
- The stream-bounce illusion depends on subjective audiovisual simultaneity, Norimichi Kitagawa
- Development of audiovisual integration: Change in perceptual sensitivity or response criterion?, *Yi-Chuan Chen*
- Malleability of the time window of integration: Relating reaction time to judgments of audiovisual temporal order, *Hans Colonius*

Keynote – 13:15 - 14:15

Keynote Lecture Prof. Dr. Elia Formisano

- The computational architecture of the human auditory cortex, $Elia\ Formisano$

Posters session l

Wednesday - 13:30 - 15:00

- 1. Rapid temporal recalibration occurs crossmodally without stimulus specificity but is absent unimodally David Alais, Erik van der Burg
- 2. Simulation fidelity affects perceived sound comfort Max Aldridge, Mark White, Natalia Cooper, Georg Meyer, Rolf Zon
- 3. There is something on the hand! H.A. Anema, R. Bron, M. Mulckhuyse, H.C. Dijkerman, D.S. Veldhuijzen, J. Brouwer
- 4. Tactile symbol recognition: Specificity versus generalization of learning Gabriel Arnold, Malika Auvray
- Restoration of vision can also improve sound localization: cross-sensory calibration?
 Roberto Arrighi, Francesca Tinelli, Marco Cicchini, Laura Cinelli, Concetta Morrone, Stanislao Rizzo
- 6. Agency in sensorimotor dynamics Tomohisa Asai
- 7. Does the crossed limb deficit affect the entire limb, or only the crossed portion?

Elena Azanon, Svetla Radulova, Patrick Haggard, Matthew R Longo

- 8. Extracting statistical relationship between visual and haptic signals Hayaki Banno, Nobuya Sato
- 9. Does sensory uncertainty influence cross-modal interactions in children? Maeve M. Barrett, Eugenie Roudaia, Fiona N. Newell, David P. McGovern
- 10. Transient vision of the body reduces sensitivity to nociceptive signals when the painful stimulus is not visible Brianna Beck, Patrick Haggard, Elisabetta Ladavas
- 11. Evaluating the effect of seeing human body images on peoples ability to estimate their own body size and on body satisfaction Valeria Bellan, Roberta Etzi, Alberto Gallace
- 12. Splitting Time William Boyce
- Reach trajectories reflect coordinate integration in tactile decision making Janina Brandes, Tobias Heed
 - Jainia Brandes, Tobias field
- 14. Twinkles and wrinkles: the role of age-specific vocal information on the perceived attractiveness of younger and older faces. Brendan Cullen, John Stapleton, Fiona N Newel, Annalisa Setti
- 15. EyeMusic: New Approaches to Auditory Sensory Substitution Galit Buchs, Sami Abboud, Shelly Levy-tzedek, Shachar maidenbaum, Amir Amedi
- 16. The effect of optokinetic stimulation on skin temperature regulation Elena Calzolari, Giuseppe Vallar, Alberto Gallace

- Audio and proprioceptive space perception in sighted and visually impaired children Cappagli Giulia, Cocchi Elena, Gori Monica, Baud-Bovy Gabriel
- 18. Reference frames used for binding visual motion and auditory pitch Michael Carnevale, Laurence Roy Harris
- 19. Do auditory-visual versus visual-auditory temporal integration rely on common or distinct substrates? Evidence from behavioural training Roberto Cecere, Joachim Gross, Gregor Thut
- Does visuo-tactile integration for perception of self-hand movement follow Bayesian rules? Chancel M., Montagnini A., Kavounoudias A., Blanchard C., Guerraz M.
- Visual masking of auditory signal detection in normally-occurring hearingmotion synaesthesia Chris Fassnidge, Dr Elliot Freeman, Claudia Cecconi Marcotti
- 22. Bodily Self-consciousness in autoimmune diseases Marcello Costantini, GIanluca Finotti
- 23. Examining individual differences in multisensory enhancement to determine the effect of ageing on multisensory integration Samuel Couth, Emma Gowen, Ellen Poliakoff
- 24. Maturation of multisensory speech integration in children with Autism Spectrum Disorder (ASD) and with typical development (TD): a neurocomputational analysis Cristiano Cuppini, Mauro Ursino, Elisa Magosso, Lars A. Ross, Sophie Molholm, John J. Foxe
- 25. Arm position modulates long-distance tactile masking between the arms Sarah D'Amour, Laurence Harris
- 26. Visual and haptic target/distractor interactions and spatial congruency effects in goal-directed grasping Shirin Davarpanah Jazi, Caitlin Gillen, Jesse DeSimone, Matthew Heath
- The crossmodal interaction between vision and nociception in peripersonal space.
 De Paepe Annick
- Elucidating the time-course of tactile perceptual learning: Evidence for both short- and long-term generalisation processes Harriet Dempsey-Jones, Dr. Vanessa Harrar, Professor Charles Spence, Dr. Tamar Makin
- 29. Subliminal odors differentially influence the visual detection of faciallyexpressed emotions Dollion Nicolas, Schaal Benoist, Baudoin Jean-Yves, Durand Karine
- 30. Assessing the role of visual stimuli over tactile aesthetic judgments Roberta Etzi, Zaira Cattaneo, Massimiliano Zampini, Alberto Gallace
- 31. Cross-modal interactions in low-level apparent motion and ageing Eugenie Roudaia, Fiona N. Newell
- 32. The Role of Temporal Synchrony and Spatial Congruency for Body Perception in Newborns Maria Laura Filippetti, Mark H. Johnson, Teresa Farroni, Giulia Orioli

- 33. Wider windows of audiovisual integration do not result in higher McGurk fusion rates Ana A Francisco, James M McQueen, Alexandra Jesse, Margriet A Groen
- 34. Degraded coupling between head and body reference frames optimizes integration between subjective visual and haptic verticals. Lindsey E. Fraser, Laurence R. Harris
- 35. Influence of rotating auditory stimuli on standing posture of subjects performing different cognitive tasks Lennie Gandemer, Richard Kronland, Christophe Bourdin, Gaetan Parseihian
- 36. Learned face-voice pairings facilitate visual search Marcia Grabowecky, Satoru Suzuki, Jacob Zweig
- 37. The audiovisual benefit for speech perception in children and adolescents with developmental dyslexia Margriet A. Groen, Alexandra Jesse
- 38. Postural effects on the perceived tilt of a line and global motion. Pearl S. Guterman, Robert S. Allison
- The bi-stable palm: clockwise versus counter-clockwise tactile motion perception Jess Hartcher-O'Brien, Malika Auvray
- 40. Audio-visual fusion in motion
 - Hartnagel
- Whats wrong with you? Is it binding or timing? Hass, Katharina, Roy, Mandy, Dillo, Wolfgang, Szycik, Gregor, Wiswede, Daniel, Reese, Tanya
- Children benefit from audiovisual semantic congruency during memory encoding Jenni Heikkilä, Kaisa Tiippana
- 43. Stimulus size and location govern the magnitude of duration aftereffects James Heron, Neil W. Roach, Corinne Fulcher, Paul V. McGraw, David Whitaker
- 44. Nonlinear Response Time Speedup In Visual-Olfactory Stimulation Suggests Multisensory Integration Richard Höchenberger, Kathrin Ohla
- 45. Galvanic vestibular stimulation disrupts the representation of self Adria E. N. Hoover, Laurence R. Harris
- 46. The shape of things to come: temporal recalibration changes responses to unisensory stimuli Ninja Kaja Horr, Mark Ernst, Massimilano Di Luca, Michael Barnett-Cowan
- 47. Touch-induced visual masking effect Masakazu Ide, Souta Hidaka
- 48. Visuo-Proprioceptive Interaction after Spinal Cord Injury Silvio Ionta, Roger Gassert, Armin Curt, Patrick Freund, Catherine Jutzeler, Michael Villiger
- 49. The effect of delayed visual feedback in 'robot' hand illusion Mohamad Arif Fahmi Bin Ismail, Shimada Sotaro
- 50. Influences of the body schema on mirror-touch synesthesia Jared Medina, Carrie DePasquale

- Behavioral evidence of self-other evaluation changes induced by visuotactile multisensory integration Hyun Taek Kim
- 52. Longer integration windows account for RT gains induced by priori knowledge

Farid I. Kandil, Hans Colonius, Annette Schomburg, Adele Diederich

53. Probing the neural basis of trimodal representation of self-body motion: an fMRI study

Anne Kavounoudias, Jean-Luc Anton, Caroline Blanchard, Bruno Nazarian

- 54. Vocal information modulates the perception of traits from body motion Hanni Kiiski, Ludovic Hoyet, Carol O'Sullivan, Fiona N. Newell, Katja Zibrek, Fiona Neill
- 55. Maintained SI topography of phantom digits decades post arm amputation Ms. Sanne Kikkert, Dr. Saad Jbabdi, Prof. Irene Tracey, Dr. Tamar R. Makin, Prof. Heidi Johansen-Berg, Mr. James Kolasinski
- 56. Effects of positive emotion on audiovisual integration. Miho Kitamura, Katsumi Watanabe, Norimichi Kitagawa
- 57. Could the unequal number of sensory inputs lead to a crossmodal binding rivalry? Maria Kostaki, Argiro Vatakis
- 58. Evidence for the common coding of location Hannah M. Kruger, Therese Collins, Patrick Cavanagh
- 59. The (in)consistency of visuo-haptic and haptic-haptic biases Irene A. Kuling, Marieke C. W. van der Graaff, Eli Brenner, Jeroen B. J. Smeets
- 60. Visual influence on tactile perception applied to skin care products Nolwenn Lecointre, Jean-Marc Sieffermann, Eleonore Loescher
- 61. Contextual odor cues help detecting low-intensity emotional expressions of faces

Leleu, A., Franck, N., Durand, K., Schaal, B., Baudouin, J.-Y., Demily, C.

- 62. Red Hot: Colors Crossmodal Effect on Perceived Spiciness Carmel A. Levitan, Devin Shermer
- 63. A trade-off between spatial and temporal sensitivity in multisensory perception.

Raquel London, Durk Talsma

64. Integration of visual tactile stimulation in the absence of visual awareness is modulated by body form

Roy Salomon, Giulia Galli, Marta Lukowska, Javier Bello Ruiz, Olaf Blanke

65. Congruent haptic stimulation reduces visual suppression during binocular rivalry

Claudia Lunghi, Maria Concetta Morrone, David Alais

- 66. Conspecific objects exhibit preferential multisensory integration Pawel J. Matusz, Eveline Geiser, Céline Cappe, Micah M. Murray, Jean-Franois Knebel, Antonia Thelen
- 67. Body representation and interpersonal socio-affective factors: The enfacement illusion modulated by autistic-like traits Mara Mazzurega, Patrizia Garberi, Massimiliano Zampini, Gianluca Esposito, Valeria Occelli

- Task-specific transfer of perceptual learning from dominant to non-dominant sensory modalities
 David P. McGovern, Fiona N. Newell, Andrew T. Astle, Sarah L. Clavin
- Visual feedback is sufficient for changes in tactile perception induced by tool use Luke E. Miller, Ayse P. Savgin, Matthew R. Longo
- 70. Visual stimuli induced by using a system to provide independent fields of view with a function to generate various types of artificial eye movements Fumio Mizuno, Takami Yamaguchi, Tomoaki Hayasaka
- Audiovisual integration in people with one eye: Normal temporal binding window but reduced McGurk effect Stefania S. Moro, Jennifer K. E. Steeves
- 72. Influence of body posture on visual perception experiment in binocular rivalry paradigm Pawel Albert Motyka
- 73. Selective deployment of attention to time and modality via low frequency oscillations Stefanie Mühlberg, Mirreia Torralba, Joachim Gross, Salvador Soto-Farraco
- 74. Exposure to discrepant auditory-visual stimuli increases the tendency to bind auditory-visual signals
 - Brian Odegaard, David Wozny, Ladan Shams
- 75. The blind man who saw his hands. Cross-modal plasticity revisited. Avinoam B. Safran
- 76. In mind's eye: Investigating mental imagery in simultaneous interpreters Katarzyna Stachowiak
- 77. The effect of synesthetic associations between the visual and auditory modalities on audiovisual integration is task dependent Jeroen J. Stekelenburg, Mirjam Keetels
- 78. What can ancient scripts tell us about sound symbolism? Suzy Styles
- 79. When acoustic stimuli turn visual circles into ellipses: sounds evoking accelerations modify visuo-motor coupling Thoret Etienne, Bringoux Lionel, Kronland-Martinet Richard, Ystad Sølvi, Aramaki Mitsuko

Posters session ll

Friday - 13:30 - 15:00

- 1. Altered top-down cognitive control and auditory processing in tinnitus: evidences from auditory and visual spatial Stroop. Rodrigo Araneda, Naïma Deggouj, Emilie Lacroix, Laurent Renier, Pierre Philippot, Alexandre Heeren, Anne G. De Volder
- 2. Audiovisual speech integration is not modulated by the lexicon Martijn Baart, Arthur G. Samuel
- 3. Spatiotemporal patterns of audiovisual speech processing and integration: A human electrocorticography Study Kristen Berry, Eric Halgren, Thomas Thesen, Orrin Devinsky, Werner Doyle, Lucia Melloni, Daniel Friedman, Patricia Dugan, Callah Boomhaur, Valerie Nunez
- 4. The effect of pauses and beat gestures on syntactic parsing Emmanuel Biau, Salvador Soto-Faraco, Lauren Fromont
- 5. Vision overrides audition during multisensory interaction via the dorsal parieto-premotor visual pathway Qi Chen
- A taste for words and sounds: a case of lexical-gustatory and soundgustatory synesthesia Olympia Colizoli, Romke Rouw, Jaap MJ Murre
- 7. But my eyes are fixed on you: Visually evoked postural responses are modulated by the perceived stability of foreground objects Natalia Cooper, Mark D White, Georg F Meyer, Jennifer Davies, Max Aldridge, Iain Cant
- 8. The effects of congruency on the latency of continuous audiovisual speech processing

Michael J Crosse, Edmund C Lalor

- 9. Importance of scents for brand communication Agnieszka Dabrowska-Leszczynska
- Development of depth cue integration in childhood: a glimpse into the neural mechanisms
 Trees Dallar, Andreas Welchman, Marka Nardiai, Uisachi Ban

Tessa Dekker, Andrew Welchman, Marko Nardini, Hiroshi Ban

- 11. Are tactile preferences mediated by visual imagery? An experimental study on sighted, low vision and blind individuals. Roberta Etzi, Alberto Gallace, Massimiliano Zampini
- 12. Modulation of facial expression processing by the odor context: An ERP study

godard, leleu, durand, baudouin, schaal, dollion

- 13. Multisensory learning through exposure Boukje Habets, Brigitte Röder, Marco von Frieling
- 14. **EEG oscillation and inverse effectiveness for visuo-tactile integration** Noriaki Kanayama, Kenta Kimura, Kazuo Hiraki
- Audio-visual congruency and feature-based attention influence visual stimulus processing independently Christian Keitel, Matthias M. Mller

- 16. Frequency modulation in cortical circuits with normalizing feedback Jérémie Lefebvre, Kevin Whittingstall, Micah M. Murray, Axel Hutt
- 17. Opposite activity modulations in STS and insula during the McGurk illusion C.S.Luettke, M.A.J. van Gerven, F.P. de Lange

18. The effect of the weight of the container on peoples perception of mineral water

Emanuela Maggioni, Paola Risso, Nadia Olivero, Alberto Gallace

19. Modality dominance in the double-flash illusion: How reduction of auditory intensity effects the cortical processes associated with integration and illusion

Ralph McDevitt, Joydeep Bhattacharya

20. Anterior cingulate cortex responsiveness to audiovisual conflict in the McGurk illusion Luis Morís Fernández, Salvador Soto-Faraco, Emiliano Macaluso

21. Visuo-tactile peripersonal space degradation after auditory deprivation

predicts interoceptive awareness and proneness to aberrant phenomenology

Jean-Paul Noel, Herve Lissek, Andrea Serino, Olaf Blanke, Patrick Marmaroli

22. Bimodal information increases intentional synchronization with a walking partner

Dominic Nov, João Lamas, Jorge Santos, Sandra Mouta

- 23. Visual, auditory, and auditory-visual spatialbiases Brian Odegaard, David Wozny, Ladan Shams
- 24. Effects of visual presentation of hand image on visuotactile temporal adaptation

Tomoka Omi, Masakazu Ide, Souta Hidaka

25. Is proprioceptive reinforcement learning dependent on visual target positions?

Krista Overvliet, Katinka van der Kooij, Jeroen Smeets

- 26. Multisensory integration abnormalities and ADHD: evidence from a study on a subclinical population Maria Panagiotidi, Tom Stafford, Paul Overton
- 27. Sound helps to rescue unaware visual information to awareness Pápai, Márta Szabina, Soto-Faraco, Salvador
- 28. Influence of sound morphologies on movement behaviour in sound-guided tasks Parseihian Gaëtan, Aramaki Mitsuko, Gondre Charles, Ystad Sølvi, Kronland-Martinet Richard
- 29. Feeling and seeing size in the size-weight illusion Myrthe A. Plaisier, Saskia Castenmiller, Perla G.H. Douven, Jeroen B.J. Smeets
- 30. Those are your legs: The effect of visuo-spatial perspective on visuo-tactile interactions and body ownership Polona Pozeg, Olaf Blanke, Giulia Galli
- 31. Increased sensitivity to cross-modal interference in tinnitus patients during auditory and visual tasks. Laurenr Renier, Rodrigo Araneda, Anne G. De Volder

- 32. The effect of coloured glasses on peoples perception, expectation and choice of mineral water Paola Risso. Alberto Gallace. Emanuela Maggioni
- 33. Sensorimotor adaptation to delayed visual feedback of the whole field of view Marieke Rohde, Marc O. Ernst, Gizem Altan
- 34. Hearing brighter: Changing in-depth visual perception through looming sounds

Vincenzo Romei, Gregor Thut, Clare A.M. Sutherland

- 35. Ecological validity? Alternative reasons for a bias towards vision leading sound in subjective simultaneity. Warrick Roseboom, Kielan Yarrow
- 36. Invisible aftereffects: How the absence of awareness influence motion perception Daphne Roumani, Dimitrios Kounoupas, Konstantinos Moutoussis

37. Real-time multisensory integration enhances tracking of time-varying signals

Benjamin Rowland, Barry E. Stein, J. William Vaughan

- Perceived reality in multimodal content as a function of synchrony between vibration and audio-visual information Shuichi Sakamoto, Jiro Gyoba, Yo-iti Suzuki, Emi Takahashi
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- 40. Crossmodal Perceptual Load Rajwant Sandhu, Benjamin Dyson
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- 42. Synchronization between respiration phase and acoustic feature has effects on affective rating Takashi G. Sato, Junji Watanabe, Takehiro Moriya
- 43. Multisensory gain: A linear inverse or inverted U pattern? Markos Sellis, Giampiero Salvi, Jonas Beskow, Argyro Vatakis
- 44. Analogous motion illusion in vision and audition Irene Senna, Cesare V. Parise, Marc O. Ernst
- 45. Move still: A direct comparison of real and implied motion in duration perception Argiro Vatakis, Helena Sgouramani
- 46. Cross-model correspondences between visual shape and Mandarin Chinese tone in speakers with different language backgrounds Nan Shang, Suzy J Styles
- 47. Geometrical aspects of multisensory motion perception Masaru Shimbo, Jun Toyama, Masashi Shimbo
- 48. Psychoacoustic correlates of speech-sound/shape/size mapping in a 121alternative forced-choice task Suzy Styles

- 49. Can we adapt a delayed sound and non-delayed flash after voluntary action concurrently? Yoshimori Sugano, Miriam Keetels, Jean Vroomen
- 50. **Transfer of audio-visual training** Ralf Sürig, Davide Bottari, Brigitte Röder
- 51. Fear adaptively extends peri-personal space Taffou Marine, Viaud-Delmon Isabelle
- 52. Action sounds change the mental representation of arm length: Effects of kinaesthesia and sense of agency Ana Tajadura-Jiménez, Torsten Marquardt, Nadia Bianchi-Berthouze, Manos Tsakiris
- 53. Comparison of emotion perception between artificial and non-artificial stimuli representing different emotions by faces and voices Sachiko Takagi, Akihiro Tanaka, Ken-ichi Tabei
- 54. Selective activation in the Lateral Occipital Cortex and a massive occipital deactivation for passive touch Tal Zohar, Geva Ran, Amedi Amir
- 55. Cultural differences in emotion perception by face and voice representing basic six emotions Akihiro Tanaka, Sachiko Takagi, Ken-ichi Tabei
- 56. Multisensory context portends object memory Antonia Thelen, Micah M. Murray, Pawel J. Matusz
- 57. Auditory perception of biological movements: an evidence of cognitive specifities from sound synthesis Thoret Etienne, Aramaki Mitsuko, Ystaf Sølvi, Velay Jean-Luc, Kronland-Martinet Richard
- 58. An ERP Study on temporal recalibration for delayed auditory feedback Koichi Toida, Kanako Ueno, Sotaro Shimada
- 59. The vision heuristic: Judging music ensembles by sight alone Chia-Jung Tsay
- 60. Independency of reduction of attentional resources in the motor-sensory temporal recalibration Masaki Tsujita, Makoto Ichikawa
- 61. The Influence of our Motor Capabilities on Time-to-Collision Judgments Eleonora Vagnoni, Stella F Lourenco, Matthew R Longo
- 62. Does somatic threat influence crossmodal spatial attention between vision and touch in healthy humans? Lien Van der Biest, Annick De Paepe, Valery Legrain, Geert Crombez
- 63. Body ownership affects visual perception of object size by rescaling the visual representation of external space Björn van der Hoort, Henrik Ehrsson
- 64. Audiovisual integration in 3-D space: Inverse effectiveness and spatial alignment in depth. Nathan Van der Stoep, Maarten J. Van der Smagt, Stefan Van der Stigchel, Tanja C. W. Nijboer
- 65. Attentional prioritization of tactile and visual stimuli at a threatened body location

Charlotte Vanden Bulcke, Stefaan Van Damme, Geert Crombez

- 66. Peri-saccadic shift of touches on the skin Vanessa Harrar, Laurence R. Harris, Markus Lappe, Harald Frenz
- 67. Acquisition of object knowledge through exploratory acts Argiro Vatakis, Panagiotis Dimitrakis, Katerina Pastra
- 68. Enhanced auditory spatial localization in blind echolocators Vercillo, T.
- 69. Hearing flashes and seeing beeps: the timing of audiovisual events Manuel Vidal
- Mice may experience body ownership of the tails Makoto Wada, Hiroki Ora, Kenji Kansaku, Kouji Takano
- 71. Visual peripersonal space in older adults Teramoto Wataru, Tomoaki Kakuya, Kaoru Sekiyama
- 72. Shifts of temporal asynchronies toward opposite directions for temporal judgment and interaction of audiovisual modalities Kosuke Yamamoto, Hideaki Kawabata
- 73. A 2AFC simultaneity-judgment task to estimate the point of subjective simultaneity Kielan Yarrow, Derek H Arnold, Steven Di Costa, Sara Shapiro
- 74. Enhanced visual dominance in far space than in near space Zhenzhu Yue, Qi Chen
- 75. ERP-evidence for inhibition-of-return (IOR) in crossmodal spatial cuing occurs with neutral, but not emotional sound cues Ulrike Zimmer, Hannah Rosenzopf, Christian Poglitsch, Anja Ischebeck
- 76. Evidence for a role of the right dorsolateral prefrontal cortex in controlling multimodal stimulus-response integration: A transcranial direct current stimulation (tDCS) study Shore Zmirod J control & Colorte Remberd Hommel

Sharon Zmigrod, Lorenza S. Colzato, Bernhard Hommel

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Suzanne Nooij, Paolo Pretto, Heinrich Buelthoff, Alessandro Nesti

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