

# ESCOP 2015 Detailed Program

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Presenting authors are indicated in italics

### Thursday, September 17<sup>th</sup> 2015

12:00 – 13:45	Pre-conference event: Women in Cognitive Science (WiCS) – Symposium   Room: Lara A-B
14:00 – 15:45	Pre-conference event: European Research Council (ERC) – Symposium   Room: Lara A-B
16:00 – 16:30	Conference Opening   Room: Akamas A-B-C-D
16:30 – 17:30	<b>Keynote Lecture 1 -</b> A core brain system in assembly of cognitive episodes  The Broadbent Lecture: <i>John Duncan</i>   Room: Akamas A-B-C-D
17:30 – 19:30	Poster Session A   Area: Akamas Terrace
19:30	Welcome Reception   Area: Palm Deck – Azia Gardens

# Friday, September 18<sup>th</sup> 2015 (Morning) – Symposia

09:00 – 11:00	Attention and working memory: commonalities and differences (Invited Symposium sponsored by ESCOP and the Psychonomic Society) Chairs: Marios Avraamides and Teresa Bajo Room: Akamas A
09:00	The focus of attention as a highlighter of perceived and of stored information   N. Cowan
09:20	Protection and flexible updating of representations in memory   M. Husain
09:40	Genetic influences on attention and working memory   N. Friedman
10:00	Attention as work, not memory in working memory   R. Logie
10:20	Attentional and non-attentional maintenance in working memory   V. Camos
10:40	Underlying mechanisms of working memory training – the role of interference resolution and attentional control   S. Jaeggi

09:00 – 11:00	Automatic and strategic processes in the Stroop effect Chair: Avishai Henik Room: Akamas B
09:00	Regulation of the conflict adaptation effect by emotion   D. Sharma
09:20	The influence of response modality (manual vs. vocal) in the Stroop task   M. Augustinova
09:40	The dynamics of control in the Stroop task   W. Notebaert, C. Bundt, E. Abrahamse, M. Ruitenberg
10:00	On the "what" and the "how" of control of the Stroop effect   J. Tzelgov, Y.Levin, O.Entel
10:20	Interaction between inherited and situational factors of cognitive performance in the Stroop Color-naming task   A. Szekely, A. Vereczkei, B. Gönye, J. Bircher, E. Kotyuk, R.E. Katonai, M. Gyurkovics, S. Maruzsa, K. Varga, J.M. Duchek, D.A. Balota, M. Sasvari-Szekely
10:40	Discussion

09:00 – 11:00	Current methods and advances in prospective memory research Chairs: Nicolas Rothen and Jennifer Rusted Room: Akamas C
09:00	Contributions of sensory and higher order cortical areas in prospective memory   N. Sigala
09:20	Electrophysiological evidence of top-down and bottom-up processes in Prospective memory <i>P. Bisiacchi,</i> G. Cona
09:40	Prospective memory and stress-dependent cortisol secretion: Are we less affected when we are old?   M. Kliegel, K. Schnitzspahn, C. Kirschbaum
10:00	Does the impact on prospective memory of carrying the APOE e4 gene vary with age and cognitive state?   <i>J. Rusted</i> , S. Evans, C. Lancaster, N. Rothen, Y. Nagai
10:20	Linking real-world prospective memory, experimental tasks, and underlying mechanisms:  Evidence from computational modelling and online web-based testing  S. Gilbert
10:40	Psychophysiology of prospective memory: The effects of autonomic arousal and cue-focality on prospective memory retrieval   N. Rothen, Y. Nagai, J. Rusted

09:00 - 11:00	Big data approaches to understanding visual word recognition Chair: Kathy Rastle Room: Akamas D
09:00	Moving beyond the monosyllable in models of skilled reading: Mega-study of disyllabic nonword reading   K. Rastle, B. Mousikou, J. Sadat, R. Lucas
09:20	Can reaction times from massive online experiments be used to study visual word recognition? <i>P. Mandera</i> , E. Keuleers, M. Stevens, M. Brysbaert
09:40	How spurious can you get? Charting the sensitivity and specificity of typical psycholinguistic experiments with megastudy data   M. Stevens, P. Mandera, E. Keuleers, M. Brysbaert
10:00	Quality, not quantity: Register is more important than size in corpus—based frequency estimation <i>D. Crepaldi</i> , S. Amenta, P. Mandera, E. Keuleers, M. Brysbaert
10:20	Contextual diversity, not frequency, predicts children's word reading accuracy   K. Nation, B. Vandekerckhove, J. Ricketts
10:40	Discussion

09:00 – 11:00	What Bayesian methods can do for cognitive science Chair: Joachim Vandekerckhove Room: Lara A-B
09:00	JASP: A Fresh Way to do Statistics   E. Wagenmakers
09:20	The misalignment of scientific thought and statistical practice: deep problems and workable solutions   R. Morey
09:40	A Bayesian framework for publication bias mitigation using behavioral process models J. Vandekerckhove, M. Guan
10:00	Is extra attention needed to remember feature bindings? Testing theoretically meaningful null hypotheses with Bayes factors   C. Morey
10:20	From thinking in terms of effects (and failing to reject the null hypothesis) to thinking in terms of models (and embracing the invariance)   E. Vergauwe, J. Rouder
10:40	Discussion

09:00 - 11:00	Implicit vs. explicit learning and consolidation Chair: Dezso Nemeth Room: Amoroza A
09:00	Competitive brain networks underlying implicit and explicit learning   D. Nemeth, K. Janacsek
09:20	Sleep consolidates the hippocampal-dependent representation of motor sequences   G. Albouy
09:40	From implicit to explicit learning, and back   A. Cleeremans
10:00	Consolidation and generalization of implicit sequence learning during sleep   K. Rauss, N. Lutz, S. Diekelmann, J. Born
10:20	Discussion

09:00 – 11:00	Neurocognitive correlates of cognitive control Chairs: Lorenza Colzato and Laura Steenbergen Room: Amoroza B-C
09:00	Tyrosine but not propranolol modulates cognitive flexibility: evidence from task-switching paradigm in randomized controlled trials   L. Colzato, L. Steenbergen, R. Sellaro, B. Hommel
09:20	Dopaminergic modulation of working memory updating through transcranial direct current stimulation   B. Jongkees, R. Sellaro, B. Hommel, S. Kühn, L. Colzato
09:40	γ-Aminobutyric acid (GABA) improves action selection processes: evidence from transcutaneous vagus nerve stimulation (tVNS) and synthetic GABA administration   L. Steenbergen, R. Sellaro, A. Stock, C. Beste, L. Colzato
10:00	Neurobiochemical factors of goal activation during multitasking   A. Stock, C. Beste
10:20	Functional neuroanatomy of goal activation during multitasking   C. Beste
10:40	Action control in response-inhibition tasks: A biased competition account   F. Verbruggen

09:00 - 11:00	Social and emotional information processing in the developing brain Chair: Arnaud Destrebecqz Room: Amoroza D
09:00	Rapid Categorization of natural face images in the infant right hemisphere   A. de Heering, B. Rossion
09:20	<b>Spatial attentional biases to threat-relevant stimuli in infancy  </b> <i>J. Bertels</i> , C. Bayard, A. Destrebecqz
09:40	How infants deploy their visual attention to emotionally-expressive faces: An eye-tracking approach   J. Baudouin, N. Dollion, O. Godard, K. Durand, R. Soussignan, B. Schaal
10:00	Affective matching of odors and facial expressions in infants: Shifting patterns between 3 and 7 months   O. Godard, K. Durand, B. Schaal, J. Baudouin
10:20	The difference between deliberate and accidental consequences of actions in children and chimpanzees   A. Destrebecqz, L. Legrain, W. Gevers
10:40	Antecedents of attachment security in infancy: Attention and neural responses to negative emotions   M. Peltola, L. Forssman, S. Yrttiaho, K. Puura, M. van IJzendoorn, J. Leppänen

11:00 – 11:30 Coffee Break | Area: Akamas Terrace

### Friday, September 18<sup>th</sup> 2015 (Noon) – Parallel Sessions

11:30 – 13:10	Working memory     Room: Akamas A
11:30	A dimensional approach to developmental impairments of attention, learning and memory S. Gathercole, F. Woolgar, D. Astle, <i>T. Manly</i> , J. Holmes
11:50	Is storage capacity or attentional control the end story to understanding VSTM in childhood?  Going beyond the investigation of single mechanisms   A. Shimi, G. Scerif
12:10	Does rehearsal help immediate serial recall?   K. Oberauer, A. Souza
12:30	Questioning short-term memory and its measurement: Why digit span measures long-term associative learning   G. Jones, B. Macken
12:50	Visuospatial bootstrapping effects in working memory   R. Allen, J. Havelka, C. Calia, S. Darling

11:30 – 13:10	Task switching   Room: Akamas B
11:30	Incorrect predictions reduce switch costs   T. Kleinsorge, J. Scheil
11:50	Tactile stimuli increase effects of modality compatibility in task switching   D.N. Stephan, I. Koch
12:10	Time-based expectancy for task relevant stimulus features and feature combinations R. Thomaschke, J. Hoffmann, C. Haering, A. Kiesel
12:30	A brain network involved in domain-general task-switching   A. Vallesi, S. Arbula, M. Capizzi
12:50	Joint Performance without Corepresentation   M. Yamaguchi, H. Wall

11:30 – 13:10	Language I   Room: Akamas C
11:30	Unconscious emotional effects on syntactic processing during sentence comprehension: An ERP study   L. Jiménez Ortega, J. Espuny, P. Herreros de Tejada, C. Vargas-Rivero, M. Martin-Loeches
11:50	On the influence of the orthographic system beyond linguistic processes   C. Martin, S. Schlöffel, M. Lallier, M. Carreiras
12:10	The influence of speaker accent on ambiguity resolution   J. Rodd, Z. Cai, G. Gaskell, M. Davis
12:30	The time-course of cross modal word learning in adults   A. Weighall, L. Spackman, J. Morgan
12:50	Time, sleep and lexical ambiguity   G. Gaskell, Z. Cai, H. Betts, J. Rodd

11:30 – 13:10	Memory I   Room: Akamas D
11:30	Properties of retrieval-induced forgetting in motor memory   T. Tempel, C. Frings
11:50	Effects of auditory distraction on memory and meta-memory: The case of encoding   <i>P. Beaman</i> , M. Hanczakowski, D. Jones
12:10	The effect of a storyteller's gaze direction on memory performance and psychophysiological responses in children   T. Helminen, J. Lähteenmäki, A. Engdahl, J. Hietanen
12:30	Memory frames: The effect of retrieval query format on source recollection   A. Raposo, S. Frade, M. Alves
12:50	Age of acquisition and frequency affect memory: Evidence from free recall of pictures and words   <i>I. Raman</i> , S. Ikier, E. Raman, E. Kilecioglu
11:30 – 13:10	Bilingualism   Room: Lara A-B
11:30	The foreign language effect on moral judgments involving material consequences   A.E. Lim, W. Cheong
11:50	<b>Bilingual language control and speech monitoring: Two sides of the same coin?</b>   <i>M. Declerck,</i> K. Lemhöfer, J. Grainger
12:10	"Semantic P600" in second language sentence processing: When syntax conflicts with semantics X. Zheng, K. Lemhöfer
12:30	Cognate and non-cognate representations in Greek-English bilingual adults and children: a cross-script investigation using the masked priming paradigm   A. Terzopoulos, L. Duncan, G. Niolaki, J. Masterson
12:50	<b>Learning from internal and external error signals in second language acquisition  </b> <i>S. Bultena,</i> K. Lemhöfer, C. Danielmeier, H. Bekkering

11:30 – 13:10	Numerical cognition I   Room: Amoroza A
11:30	Numerosity extraction in young children: Evidence from the distribution game   A. Content, J. Nys
11:50	The involvement of an inhibitory mechanism to select arithmetic facts: A developmental study <i>P. Megias,</i> P. Macizo
12:10	Tracking practice effects in computation estimation   D. Ganor-Stern, N. Weiss
12:30	Identifying the cognitive predictors of early counting and calculation skills: Evidence from a longitudinal study   E. Soto-Calvo, F.R. Simmons, C. Willis, A. Adams
12:50	Testing the mental architecture of processing symbolic and non-symbolic numerical information <i>R. Goldman</i> , S. Naparstek, J. Tzelgov, A. Henik

11:30 – 13:10	Speech processing   Room: Amoroza B-C
11:30	Anticipation processes in L2 speech comprehension: Evidence from ERPs and lexical recognition task   A. Foucart, E. Ruiz-Tada, A. Costa
11:50	Formality variation in spontaneous speech: Corpus data on the influence of listener status <i>K. Koppen,</i> M. Ernestus, M. van Mulken
12:10	Integration of "secondary" information during comprehension: Co-speech gestures in English and mouth patterns accompanying British Sign Language signs   D. Vinson, P. Perniss, G. Vigliocco
12:30	Spatio-temporal dynamics of word selection in speech production: Insights from electrocorticography   S. Ries, R. Dhillon, A. Clarke, D. King-Stephen, K. Laxer, P. Weber, R. Kuperman, K. Auguste, P. Brunner, G. Schalk, J. Lin, J. Parvizi, N. Crone, N. Dronkers, R. Knight
12:50	Ten things I like about /y/: Testing the mirror neuron hypothesis of sound symbolism using a non-English vowel   S.J. Styles

11:30 – 13:10	Decision mechanisms / consciousness   Room: Amoroza D
11:30	Using covert response activation to test latent assumptions of formal decision-making models <i>M. Servant</i> , C. White, A. Montagnini, B. Burle
11:50	Effects of learning on somatosensory and auditory decision-making and experiences: Implications for medically unexplained symptoms   A. Huque, E. Poliakoff, R. Brown
12:10	Avoiding the conflict: Metacognitive awareness drives the selection of low-demand contexts K. Desender, C. Buc Calderon, F. Van Opstal, E. Van den Bussche
12:30	How do we know what we see and remember? The influence of task decision on awareness ratings in perception and memory   M. Wierzchon, M. Siedlecka, B. Paulewicz
12:50	<b>Decision Mechanisms Underlying Increased Reaction-Time Variability in ADHD  </b> <i>N. Shahar</i> , A.R. Teodorescu, A. Karmon-Presser, G.E. Anholt, N. Meiran

13:10 – 14:20	Lunch Break

### Friday, September 18th 2015 (Afternoon) – Parallel Sessions

14:20 – 16:00	Attention and cognitive control   Room: Akamas A
14:20	Media multi-tasking and executive functions in young adults   H. Magen
14:40	A conflict monitoring account of the control mechanisms involved in dual-tasking M. Olszanowski, A. Szmalec, T. Bajo
15:00	Response selection and crosstalk as explanatory concepts in multiple action control: Differences and commonalities   L. Huestegge, A. Pieczykolan
15:20	Development of executive functions and self-regulation regarding to academic achievements  N. Józefacka-Szram
15:40	Backward-crosstalk is due to response selection, not response activation   M. Janczyk

14:20 – 16:00	Visual perception   Room: Akamas B
14:20	Mental subtitles in the mind's eye. Characteristics and prevalence of tickertape "synaesthesia" M. Price, S. Holm, T. Eilertsen
14:40	Spotting Lesions in Split of a Second - Neural Mechanisms Behind Radiological Expertise M. Bilalic
15:00	A specialised brain area for analysis of rapid motion in the peripheral visual field   K. Mikellidou, F. Frijia, D. Montanaro, V. Greco, D. Burr, M. Morrone
15:20	Getting more, for less: The benefits of temporal integration in visual perception   E. Akyurek, M. Wolff, S. Scholz, N. Kappelmann, M. Volkert, H. van Rijn
15:40	Evolving the keys to visual crowding   E. Van der Burg, C. Olivers, J. Cass

14:20 – 16:00	Language II   Room: Akamas C
14:20	A matter of timing: when does learning to read start to impact on nonlinguistic object recognition?   T. Fernandes, I. Leite, R. Kolinsky
14:40	Morphology, Orthography, and Semantics in processing Greek words   S. Loui, A. Protopapas
15:00	Simon effect with biological spatial cues in deaf speakers of sign language   M. Scaltritti, M. Miozzo, F. Peressotti
15:20	A hierarchical generative model of letter perception based on recycling of natural image features <i>M. Zorzi,</i> A. Testolin, I. Stoianov
15:40	The role of iconicity in word learning   G. Vigliocco, R. Thompson, G. Morgan, R. England

14:20 – 16:00	Memory II   Room: Akamas D
14:20	Ownership and Memory: The Mere Ownership Effect depends on Semantic Processing J. Englert, D. Wentura
14:40	Selective directed forgetting: Boundary conditions and underlying mechanisms   C. Aguirre, C. Gómez-Ariza, P. Andrés, G. Mazzoni, M.T. Bajo
15:00	Is it really all relative? The role of relative judgment in absolute identification   D. Guest, J. Adelman, C. Kent
15:20	The influence of joint attention on visual working memory: Effects of emotional expression <i>M. Jackson</i> , S. Gregory
15:40	Prospective memory and second language education: what influences teachers' evaluation?  D. Basso, M. Cottini

14:20 – 16:00	Bilingualism II   Room: Lara A-B
14:20	Recently learned L2 words interfere with their L1 translations during picture-naming in L1 S. Geukes, P. Zwitserlood
14:40	Effects of bilingual experience and biliteracy on executive functions and working memory in Greek-Albanian children   E. Chrysochoou, Z. Bablekou, S. Kazi, E. Masoura
15:00	Cross-linguistic exposure triggers changes in parsing preferences   P. Dussias, L. Perrotti, M. Carlson
15:20	Performing iconic gestures during learning accelerates vocabulary acquisition in a foreign language   P. Macizo, N. Manzano
15:40	Hebrew morphological knowledge in Russian-Hebrew bilingual children: The insidious role of vocabulary   A. Prior, D. Shahar-Yames, Z. Eviatar

14:20 – 16:00	Social cognition   Room: Amoroza A
14:20	A sensorimotor approach of social cognition   F. Quesque, Y. Coello
14:40	The role of the dorsomedial prefrontal cortex in forming and updating social impressions C. Ferrari, T. Vecchi, A. Todorov, Z. Cattaneo
15:00	Pupil-Mimicry Correlates with Trust in In-Group Partners with Dilating Pupils   M. Kret
15:20	<b>Doing the dirty work: influence of coercion on the sense of agency  </b> <i>E. Caspar, A. Cleeremans, P. Haggard</i>
15:40	How reduced information can increase cooperation in groups   P. Riefer, B. Love

14:20 – 16:00	Reading and text comprehension   Room: Amoroza B-C
14:20	Are idiomatic expressions more emotionally engaging than literal statements? An fMRI study <i>C. Cacciari</i> , F. Citron, J. Funcke, C. Hsu, A. Jacobs
14:40	The consequences of a mind that wanders early on while reading and listening   I. Tapiero, L. Jacquot, G.A. Michael
15:00	How is Rapid Automatized Naming related to reading? A behavioral and event-related potential study with children   M. Cohen, G. Mahé, M. Laganaro, P. Zesiger
15:20	<b>Competing talker interference in sentence comprehension</b>   <i>H. Valdes-Laribi</i> , D. Wendt, E. MacDonald, M. Cooke, S. Mattys
15:40	Eye movements reveal memory processes during hypotheses testing in sequential diagnostic reasoning   A. Scholz, G. Jahn, J. Krems

14:20 – 16:00	Spatial cognition   Room: Amoroza D
14:20	Entrainment in the wild: Effects of multiple shared and private contexts on referential communication   S. Brennan, K. Schuhmann, K. Batres
14:40	<b>Effect of task constraints on the motor coding of peripersonal space  </b> <i>Y. Coello,</i> F. Quesque, Y. Wamain
15:00	Interpersonal integration of perceptual judgments in an object location task   P. Voinov, G. Knoblich, N. Sebanz
15:20	The effect of gesturing on navigation and spatial memory depends on individual differences in spatial ability   A. Galati, S. Weisberg, N. Newcombe, M. Avraamides
15:40	Number-space and pitch-space interactions in the numerically impaired brain   <i>T. Popescu</i> , M. Marin, R. Cohen Kadosh, G. Humphreys

16:00 – 16:30	Coffee Break   Area: Akamas Terrace
16:30 – 17:30	<b>Keynote Lecture 2:</b> NET-fMRI of large-scale brain networks: mapping dynamic connectivity in epochs of synaptic and system consolidation <i>Nikos Logothetis</i>   Room: Akamas A-B-C-D
17:30 – 19:30	Poster Session B   Area: Akamas Terrace
19:30	ESCOP Business Meeting   Room: Lara A-B

### Saturday, September 19<sup>th</sup> 2015 (Morning) – Symposia

09:00 – 11:00	A fight against forgetting from working memory: refreshing and removal Chairs: Evie Vergauwe and Klaus Oberauer Room: Akamas A
09:00	Refreshing memory traces in the TBRS model   P. Barrouillet, V. Camos
09:20	Directing attention to and away from working memory contents: Controlling refreshing in visual working memory   A. Souza, K. Oberauer
09:40	Exploring the process of refreshing through the probe-span task: Evidence against common conceptions of refreshing?   E. Vergauwe, N. Cowan
10:00	Working memory updating requires active item-wise removal   <i>U. Ecker</i> , K. Oberauer, S. Lewandowsky
10:20	Mind the post-distractor interval: Testing TBRS and SOB predictions   E. Davelaar, D. Sutherland
10:40	Discussion   N.Cowan

09:00 – 11:00	How is serial order coded in working memory? Chair: Steve Majerus Room: Akamas B
09:00	The mental whiteboard hypothesis on serial order coding in working memory   J. van Dijck, E. Abrahamse, S. Majerus, W. Fias
09:20	As my mother used to say: "There can be consequences when playing with SPoARC(s)!" A. Guida
09:40	The link between spatial attention and serial order in verbal working memory   S. Antoine, M. Ranzini, W. Gevers
10:00	A Hebb learning approach to developmental differences in language acquisition performance A. Szmalec, E. Smalle, W. Duyck, M. Edwards, M. Page, L. Bogaerts
10:20	The link between numerical codes and serial position codes in working memory S. Majerus, K. Oberauer
10:40	Discussion   Elisabet Service

09:00 – 11:00	Bridging cognitive psychology and artificial intelligence (Symposium sponsored by IBM and the Journal of Artificial Intelligence) Chairs: Irene-Anna Diakidoy, Loizos Michael, and Antonis Kakas Room: Akamas C
09:00	When creativity research meets artificial intelligence   A. Jordanous
09:20	Towards which intelligence? Cognition as design key for building artificial intelligent systems  A. Lieto
09:40	IBM Watson and cognitive computing   M.Gemander
10:00	Knowledge structure and activation in story comprehension   I. Diakidoy, A. Kakas, L. Michael
10:20	Discussion: AI Meets Psychology for Automated Cognitive Systems

09:00 – 11:00	How cognition supports social interaction: From joint action to dialogue Chair: Günther Knoblich Room: Akamas D
09:00	Partial representation of a co-actor's task during joint action planning: Evidence from EEG studies   D. Kourtis
09:20	Perception-action links from a group perspective   N. Sebanz, V. Ramenzoni, G. Knoblich
09:40	Modulations of action performance to communicate to a joint action partner   C. Vesper
10:00	Gesture, gaze and the body in the coordination of turns in conversation   J. Holler, K.H. Kendrick
10:20	Listening between the lines: Theory of Mind network drives neural motor activity during indirect request processing   S. Rueschemeyer, M. van Ackeren
10:40	Discussion

09:00 – 11:00	Relationship between attentional set and task-set Chair: Stephen Monsell Room: Lara A-B
09:00	Attention as a task-set parameter, and "attentional inertia" as a source of performance costs A. Lavric, S. Monsell, C.S. Longman, H. Elchlepp
09:20	Feature-based and object-based control of visual search   M. Eimer
09:40	If it ain't broke, don't fix it: Task-set components are re-used across different tasks  D. Rangelov, H. Müller
10:00	Decomposing task set: Exploring cognitive control in attention and perception-action mapping using task switching   I. Koch, M. Kreutzfeldt, V. Lawo, D. Stephan
10:20	Distractor templates in visual search: When they facilitate attentional selection and when they do not   T. Töllner
10:40	Discussion

09:00 – 11:00	Unconscious influences on goal-directed cognition (Symposium sponsored by the British Psychological Society, Cognitive Psychology Section) Chairs: Linden Ball and George Georgiou Room: Amoroza A
09:00	Unconscious processes and incubation effects in creative problem solving   G. Georgiou, K. Gilhooly
09:20	When distraction helps: Facilitating insight through concurrent articulation and irrelevant speech L. Ball, D. Litchfield, J. Marsh
09:40	Costs and benefits of distraction for insight problem solving: The role of problem modality J. Marsh, E. Threadgold, L. Ball
10:00	A comparison of true and false memory priming in analogical reasoning   E. Threadgold, M. Howe, S. Garner
10:20	The unconscious influence of repressive coping on mental and physical health   <i>J. Erskine</i> , G. Georgiou, L. Kvavilashvili
10:40	Discussion: Unconscious influences on goal-directed cognition   K. Gilhooly

09:00 - 11:00	Cognitive plasticity: evidence for behavioral and neural changes after intensive cognitive training Chairs: Tilo Strobach and Julia Karbach Room: Amoroza B-C
09:00	Training Procedural Working Memory   N. Meiran, M. Pereg, N. Shahar
09:20	On neural changes and behavioral transfer effects after dual-n-back training: An fMRI study <i>T. Schubert</i> , T. Salminen, T. Strobach, S. Kuehn
09:40	How effective is executive control training? Meta-analytic findings from younger and older adults   J. Karbach, S. Jain, P. Verhaeghen
10:00	Meta-analysis of the Impact of Playing Action Video Games on Cognition B. Bediou, D.M. Adams, R.R. Mayer, C.S. Green, D. Bavelier
10:20	Intraindividual variability in cognitive training data   T. Könen, F. Schmiedek
10:40	Improved dual-task performance after practice due to efficient task instantiation T. Strobach, T. Schubert

09:00 – 11:00	Circadian influences on human cognition: a multidisciplinary approach from cognitive neuroscience and chronobiology Chair: Angel Correa and Francisca Padilla Room: Amoroza D
09:00	Inter-individual differences in sleep-wake regulation: impact on attention-related cerebral correlates   C. Schmidt, M. Maire, C. Reichert, P. Peigneux, F. Collette, C. Cajochen
09:20	Sleep-wake and time of day dependent modulations of working memory   C. Reichert, M. Maire, C. Cajochen, C. Schmidt
09:40	Human chronobiology: Circadian photoreception, the clock and alertness   T. Woelders
10:00	<b>Effects of light upon vigilance and simulated driving tasks  </b> <i>B. Rodriguez Morilla</i> , J.A. Madrid Pérez, E. Molina Martín, A. Correa
10:20	Neurobehavioural markers of fluctuations in vigilance and executive control associated with circadian factors   A. Correa, A. Barba, T. Lara, F. Padilla
10:40	Discussion

### Saturday, September 19<sup>th</sup> 2015 (Noon) – Parallel Sessions

11:30 Attention orienting in assimilation and accommodation modes   C. Hellweg, W. Greve, C. Bermeitinger  11:50 Reward Shapes Attention   J. Theeuwes  12:10 Numerical blink – Distance matters   S. Naparstek, M. Salti, Y. Kessler, A. Henik  12:30 Stimulus-driven attentional capture without awareness   T. Schoeberl, U. Ansorge	11:30 – 13:10	Attention I   Room: Akamas A
12:10 Numerical blink – Distance matters   S. Naparstek, M. Salti, Y. Kessler, A. Henik	11:30	, , , ,
	11:50	Reward Shapes Attention   J. Theeuwes
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	12:30	Stimulus-driven attentional capture without awareness   T. Schoeberl, U. Ansorge
12:50 The structure of distractor-response bindings - or what is a feature in feature-binding?  B. Moeller, R. Pfister, C. Frings	12:50	, ·

11:30 – 13:10	Numerical cognition II   Room: Akamas B
11:30	Relative vs. absolute size: the automatic processing of non-symbolic fractions  A. Kallai, A. Henik
11:50	The Role of Coding Strategies on the Modulation of Spatial-Numerical Associations by Working Memory Load   O. Lindemann
12:10	Uncovering numerical ordinal processing   D. Sury, O. Rubinsten
12:30	Mental addition involves shifting attention rightward on a spatial continuum: Evidence from a patient with right unilateral neglect   N. Masson, M. Pesenti, F. Coyette, M. Andres, V. Dormal
12:50	Benchmark-based strategies in number line estimation   K. Luwel, D. Peeters, L. Verschaffel

11:30 – 13:10	Language III   Room: Akamas C
11:30	The effects of age, multilngualism, and education on L1 vocabulary size: Results of a massive online experiment   E. Keuleers, P. Mandera, M. Stevens, M. Brysbaert
11:50	Electrophysiological correlates of novel metaphor processing in a semantic decision and a reading task: N400 and LPC   K. Rataj, A. Przekoracka-Krawczyk, R. van der Lubbe
12:10	Neighing, barking, and drumming horses - object related sounds help and hinder picture naming A. Mädebach, S. Wöhner, M. Kieseler, J.D. Jescheniak
12:30	Is lexical integration really a matter of time? A Hebb learning approach  E. Smalle, W. Duyck, M. Page, M. Edwards, A. Szmalec
12:50	The effect of learning to read on the neural systems for vision and language: A longitudinal approach with illiterate participants  F. Huettig, U. Kumar, R. Mishra, V. Tripathi, A. Guleria, J.P. Singh, F. Eisner

11:30 – 13:10	Cognitive control   Room: Akamas D
11:30	Conflict management: Reactive withdrawal from conflict   D. Dignath, A. Kiesel, A. Eder
11:50	The neural bases of proactive and reactive control processes in normal aging <i>F. Collette</i> , M. Manard, S. François, E. Salmon
12:10	Positive and negative mind-wandering relate differently to executive control processes  D. Marcusson-Clavertz, E. Cardeña
12:30	Is eye contact facilitating of interfering with cognitive processing?  J.K. Hietanen, A. Myllyneva, T.M. Helminen, P. Lyyra
12:50	Effects of losing and winning on approach motivation and decision-making F. Verbruggen, C. Chambers, N. Lawrence, I. McLaren

11:30 – 13:10	Visual word recognition   Room: Lara A-B
11:30	Beyond the initial 140 ms, lexical decision and reading aloud are different tasks: An ERP study with topographic analysis   G. Mahé, P. Zesiger, M. Laganaro
11:50	Getting to the bottom of orthographic depth: Lexical involvement for words with complex and unpredictable sublexical correspondences   X. Schmalz, E. Beyersmann, E. Cavalli, E. Marinus
12:10	Transposed letter effects in the absence of basewords   M. Taft
12:30	<b>Morphological effects on pronunciation</b>   <i>B. Mousikou</i> , P. Strycharczuk, A. Turk, K. Rastle, J. Scobbie
12:50	Letter string perception is influenced by regularities in the script   F. Chetail

11:30 – 13:10	Dyslexia / phonological processing   Room: Amoroza A
11:30	Prefixes repel stress in reading aloud: Evidence from surface dyslexia   M. Ktori, J. Tree, B. Mousikou, M. Coltheart, K. Rastle
11:50	Predictors for academic success and drop-out for students with dyslexia in higher education <i>M. Callens</i> , M. Stevens, M. Brysbaert
12:10	Revisiting the "temporal processing deficit" hypothesis in dyslexia   L. Casini, C. Pech, J. Ziegler
12:30	Morphological priming in visual word recognition in dyslexic readers   S. Casalis, P. Quemart
12:50	Neurobiological and behavioral evidence for a serial attentional mechanism in the phonological decoding processing   V. Montani, D. Basso, M. Ruffino, M. Zorzi, A. Facoetti

11:30 – 13:10	Cognitive aging / dementia   Room: Amoroza B-C
11:30	Cognitive mechanisms and neural correlates of confabulation: evidence from classical amnesia and Alzheimer's disease   V. La Corte, B. Dubois, G. Dalla Barba
11:50	The type of concurrent task matters in dual task performance in healthy ageing and Huntington's disease   E.Vaportzis, N.Georgiou-Karistianis, A. Churchyard, J. Stout
12:10	Genetic association analyses of personality and cognitive performance in older adults E. Kotyuk, J. Duchek, D. Head, A. Szekely, A. Goate, D. Balota
12:30	Mechanical problem solving in Alzheimer's disease and semantic dementia M. Lesourd, D. Le Gall, J. Baumard, C. Jarry, F. Osiurak
12:50	Measuring the approximate number system in ageing: Methodological variations yield different results   J. Norris, J. Castronovo

11:30 – 13:10	Learning   Room: Amoroza D
11:30	Focusing on goal relevance – is it crucial for artificial grammar learning?  A. Popławska, R. Sterczyński, M. Roczniewska
11:50	Single vs. dual process theories of contingency learning: Is the evidence of dissociations between measures conclusive?   F. Blanco, I. Yarritu, M. Vadillo, H. Matute
12:10	Studying implicit learning across multiple test sessions in a web-based experiment W. Sævland, E. Norman
12:30	Effects of task representation on learning and behaviour   W. Alexander
12:50	Measuring strategic control in implicit learning: Methodological and theoretical considerations <i>E. Norman,</i> M. Price

13:10 – 14:20 Lunch Break
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### Saturday, September 19<sup>th</sup> 2015 (Afternoon) – Parallel Sessions

14:20 – 16:00	Attention II   Room: Akamas A
14:20	Construction of a scale designed to evaluate attention deficits at work  C. Couffe, G. Michael
14:40	The task shapes the mind: Can divergent thinking broaden your attention? M.K. Wronska, A. Kolańczyk
15:00	The strength of spatial orienting of attention is mediated by implicit learning M. Bonato, L. Matteo, S. Pegoraro, G. Pourtois
15:20	The handle-to-hand correspondence effect: evidence of a location coding account A. Pellicano, L. Lugli, S. Rubichi, C. Iani, R. Nicoletti
15:40	Top-down inhibition of return   A. Vivas, A. Castillo, L. Fuentes

14:20 – 16:00	Working memory II   Room: Akamas B
14:20	Cognitive load does not facilitate the emergence of structure during iterated pattern reproduction   V. Kempe, N. Gauvrit, R. Armit
14:40	Retroactive dual-task interference in memorizing and responding to visual targets: Data and theory   M. Nieuwenstein, N. Broers, S. Scholz
15:00	Can the relationship between working memory and affect be moderated by reinforcement sensitivity?   B. Rebernjak, A. Vranic, I. Tomić, M. Tonkovic
15:20	Searching for the source of the action advantage in following instructions: Evidence for a temporary motor store within working memory?   A. Jaroslawska, S. Gathercole, J. Holmes
15:40	The impact of crossmodal correspondences on working memory performance <i>R. Brunetti</i> , A. Indraccolo, S. Mastroberardino, V. Santangelo

14:20 – 16:00	Action / perception   Room: Akamas C
14:20	The predictive chameleon: Evidence for anticipated action   O. Genschow, M. Brass
14:40	Does recent action execution experience benefit action imagery?   M. Rieger
15:00	Large pupils predict goal-driven eye movements   S. Mathôt, A. Siebold, M. Donk, F. Vitu
15:20	Measuring task set preparation versus mind wandering using pupillometry K. Hutchison, K. Hart, C. Moffitt, F. Marchak
15:40	Dissociated representations of deceptive action intentions and movement kinematics in the observer's motor system   A. Finisguerra, L. Amoruso, M. Stergios, C. Urgesi

14:20 – 16:00	Cognitive control II   Room: Akamas D
14:20	Self-organized versus externally controlled multiple cognitive task requirements A. Kiesel, D. Dignath
14:40	Priority shifts in dual-task control - response scheduling strategies in cross-modal action A. Pieczykolan, L. Huestegge
15:00	Individual differences in response control tasks understood through competitive accumulation models   P. Sumner, C. Hedge, G. Powell, A. Bompas
15:20	Demands on executive functioning can differ among monolinguals: Switch cost profiles in balanced vs. unbalanced bidialectal speakers  N. Kirk, V. Kempe, K. Scott-Brown, A. Philipp, M. Declerck
15:40	Selective tuning of cognitive control brain areas during instructed task preparation C. González-García, A.F. Palenciano, J.E. Arco, M. Ruz

14:20 – 16:00	Emotion I   Room: Lara A-B
14:20	Evaluative priming reveals dissociable effects of cognitive vs. physiological anxiety on action monitoring   L. De Saedeleer
14:40	Attentional bias toward threat: The role of exposure time and fear-relevance of the stimuli M. Ziessler
15:00	Shocking actions: Motivational consequences of anticipated electric shocks  A. Eder, D. Dignath, T. Erle
15:20	The role of emotion in processing and acquisition of abstract concepts   M. Ponari, G. Vigliocco, C. Norbury
15:40	Intentional control and attentional/working memory resources in evaluative conditioning <i>R. Balas,</i> B. Gawronski, J. Sweklej

14:20 – 16:00	Bilingualism III   Room: Amoroza A
14:20	Debiasing the illusion of causality: The foreign-language effect improves accuracy in the detection of null contingency   M. Díaz-Lago, H. Matute
14:40	The role of accent in the organization of the mental lexicon   C. Romero-Rivas, A. Costa
15:00	Does the magnitude of semantic priming differ for monolingual and bilinguals? Evidence from adult Russian-English speakers   E. Volkovyskaya, I. Raman, B. Baluch
15:20	The time course of structural resilience across languages: The case of on-line translation R.M. Maier
15:40	Language switching – but not foreign language use per se – reduces the framing effect <i>Y. Oganian</i> , C. Korn, H.R. Heekeren

14:20 – 16:00	Neuropsychology   Room: Amoroza B-C
14:20	Speed of Processing: Speed or processing?   T. Papadopoulos, G. Georgiou, C. Deng, J.P. Das
14:40	Deficits in social information processing in children with Neurofibromatosis Type 1 (NF1) reflect problems with inductive reasoning   G. Michael, C. Madelaine, L. Lion-François
15:00	Attention Functioning Among Adolescents With Multiple Learning, Attentional, Behavioral, and Emotional Difficulties  T. Kolodny, N. Shalev, C. Mevorach, L. Shalev
15:20	Influence of anxiety on working memory and episodic memory in stroke patients without severe cognitive deficits  A. Grosdemange, V. Monfort, A. Toniolo, S. Richard, X. Ducrocq, L. Hugueville, B. Bolmont
15:40	Attention processes underlying a brain computer interface task are influenced by amyotrophic lateral sclerosis  A. Riccio, F. Schettini, L. Simione, A. Pizzimenti, M. Inghilleri, M. Olivetti Belardinelli, D. Mattia, F. Cincotti

14:20 – 16:00	Reasoning   Room: Amoroza D
14:20	The hazard fallacy   S. Los, W. Kruijne, M. Meeter
14:40	Effects and aftereffects of rule violations   R. Wirth, R. Pfister, A. Foerster, W. Kunde
15:00	Counterfactual and semifactual alternatives in moral judgments about failed attempts to harm <i>M. Parkinson</i> , R. Byrne
15:20	Second-order false-belief: a modal analysis   T. Braüner, P. Blackburn, I. Polyanskaya
15:40	Semantic Search in the Remote Associates Test   E. Davelaar

16:00 – 16:30	Coffee Break   Area: Akamas Terrace
16:30 – 17:30	<b>Keynote Lecture 3</b> – Perception of symmetry: behavioural and neural mechanisms <b>Bertelson Award:</b> <i>Zaira Cattaneo</i>   Room: Akamas A-B-C-D
17:30 – 19:30	Poster Session C   Area: Akamas Terrace
20:15	Conference Dinner (Optional)

# Sunday, September 20<sup>th</sup> 2015 (Morning) – Symposia

09:00 – 10:40	The role of long-term memory in working memory Chair: Valerie Camos Room: Akamas A
09:00	Long-term representations do not moderate the effect of attentional refreshing on working memory   V. Camos, G. Mora, V. Loaiza
09:20	Roles of long-term knowledge and spatial rehearsal in the visuo-spatial bootstrapping paradigm <i>C. Morey</i> , V. Pratuseviciute, J. Lelonkiewicz, L. Robson, S. Darling
09:40	Three questions to ask about the relation between working memory and long-term memory, and three methods to answer them   K. Oberauer, E. Awh, S. Lewandowsky
10:00	Morphological knowledge and rehearsal in complex span   E. Service, S. Maury
10:20	The role of procedural long-term memory in encoding and updating working memory contents A. Vandierendonck

09:00 – 10:20	Executive control in affective contexts: evidence from healthy, clinical and paediatric populations Chair: Susanne Schweizer Room: Akamas B
09:00	Affective working memory capacity in healthy individuals and those suffering from psychopathology   S. Schweizer, T. Dalgleish
09:20	How may cognitive control training increase resilience in psychopathology?   N. Derakhshan
09:40	Stress reactivity is positively associated with encoding speed and recognition memory in typical <b>12-month old infants</b>   <i>S. Wass,</i> K. de Barbaro, K. Clackson
10:00	The Effect of Processing Type on the Interaction between Emotion and Executive Control N. Moyal, N. Cohen, L. Lichtenstein-Vidne, A. Henik
10:20	Discussion

09:00 – 10:40	Current trends in associative learning Chairs: Andrea Kiesel and Christina Pfeuffer Room: Akamas C
09:00	Words Suffice - Exploring instructed stimulus-response associations C. Pfeuffer, K. Moutsopoulou, F. Waszak, A. Kiesel
09:20	Automatically acquired stimulus-response associations and the lifespan of their component processes   K. Moutsopoulou, A. Kiesel, C. Pfeuffer, F. Waszak
09:40	Retrieval of bindings between task-irrelevant stimuli and responses can facilitate behaviour under conditions of high response certainty   A. Horner
10:00	Instruction-based formation of associations: How far can we go?   B. Liefooghe
10:20	The neural signature of encoding and implementing instructed novel and reversed stimulus-response associations   H. Ruge, U. Wolfensteller

09:00 – 10:40	The cognitive effects of bilingualism Chair: Wouter Duyck Room: Akamas D
09:00	On the cross-talk between language and executive control in bilinguals M. Calabria, G. Cattaneo, A. Costa
09:20	Examining the effects of active versus inactive bilingualism on executive control in a carefully matched non-immigrant sample   A. de Bruin, T.H. Bak, S. Della Sala
09:40	How does bilingualism shape non-linguistic cognitive abilities across lifespan?  J.A. Duñabeitia, M. Carreiras
10:00	A neuroimaging perspective on the interaction between language switching skills and cognitive control in bilingual populations   E. Struys, M. van den Noort
10:20	Cognition throughout the lifespan: Power of the bilingual experience   E. Woumans, W. Duyck

09:00 – 10:40	Social antecedents and consequences of action control Chair: Anouk van der Weiden Room: Lara A-B
09:00	Socio-motor action control   W. Kunde, R. Pfister, O. Herbort
09:20	Identity and space: How people distinguish between own and others' actions depends on social context   A. van der Weiden, R. Liepelt
09:40	Sense of Agency in Joint Action   G. Knoblich
10:00	An Event-Based Account of Conformity   D. Kim, B. Hommel
10:20	Affective matching of odors and facial expressions in infants: Shifting patterns between 3 and 7 months   O. Godard, K. Durand, B. Schaal, J. Baudouin

09:00 – 10:40	How emotion and motivation influence cognitive control Chairs: Kerstin Fröber and Maayan Katzir Room: Amoroza A
09:00	Go with the flow: How the consideration of joy versus pride influences automaticity <i>M. Katzir</i> , B. Ori, T. Eyal, N. Meiran
09:20	Conflict adaptation in positive and negative mood: Comparing the effects of different mood inductions   S. Schuch, J. Zweerings, P. Cichecki, I. Koch
09:40	The Effect of Positive Affect on Conflict Control: Modulated by Approach Motivational Intensity <i>Z. Wang,</i> Y. Liu
10:00	Considerations in the investigation of positive emotion and reward influences on cognitive control   K. Chiew, T. Braver
10:20	How sequential changes in reward magnitude modulate cognitive flexibility: Evidence from voluntary task switching   K. Fröber, G. Dreisbach

09:00 – 10:40	Modulating the social brain via transcranial Direct Current Stimulation (tDCS) Chair: Roberta Sellaro Room: Amoroza B-C
09:00	Reducing prejudice through brain stimulation  R. Sellaro, B. Derks, M. Nitsche, B. Hommel, W. van den Wildenberg, K. van Dam, L. Colzato
09:20	The medial frontal cortex mediates self-other discrimination in the Joint Simon task: a tDCS study <i>R. Liepelt</i> , B. Klempova, T. Dolk, L.S. Colzato, P. Ragert, M. Nitsche, B. Hommel
09:40	Modulatory effects of transcranial direct stimulation on utilitarian responses to moral dilemmas <i>P. Riva</i> , A. Manfrinati, S. Sacchi, L.J. Romero Lauro
10:00	The involvement of medial prefrontal cortex in fairness evaluation: Evidence from fMRI and tDCS studies   C. Civai, C. Miniussi, R.I. Rumiati
10:20	A tDCS study on imitation inhibition and implicit theory of mind   L. Bardi, E. Cracco, M. Brass

09:00 – 10:40	The role of stress in visual word recognition and reading aloud Chair: Walter van Heuven Room: Amoroza D
09:00	When orthography is not enough. The effect of lexical stress in lexical decision <i>L. Colombo</i> , S. Sulpizio
09:20	Stress is not underspecified: Evidence from fragment priming in Greek  A. Andrikopoulou, A. Protopapas, A. Arvaniti
09:40	Processing of stress diacritics on visual word recognition in skilled Greek readers  A. Kyparissiadis, N. Pitchford, T. Ledgeway, W. van Heuven
10:00	The role of stress position in bilingual word recognition: Cognate processing in Turkish and Dutch A. Muntendam, R. van Rijswijk, T. Dijkstra
10:20	On-line use of subphonemic cues for lexical stress in L1 and L2 word recognition  A. Post da Silveira, T. Dijkstra

10:40 - 11:00	Coffee Break   Area: Akamas Terrace

Sunday, September 20 <sup>th</sup> 2015 (Noon) – Parallel Sessions		
11:00 – 12:00	Attention and objects   Room: Lara A-B	
11:00	The emergence of space: Vision selects objects, not locations   B. Macken, A. Nikolova	
11:20	Adaptation to Change in Memory-Guided Visual Search: Contextual Learning of Object Identity and Spatial Configuration   M. Conci, M. Zellin, H. Müller	
11:40	Forget me if you can: Attentional capture by to-be-remembered and to-be-forgotten visual stimuli   <i>E.Sasin</i> , M. Nieuwenstein	
11:00 – 12:00	Face processing   Room: Amoroza A	
11:00	Face processing under cognitive load   L. Ahmed, E. Cox, S. Anderson, Y. Ueda, J. Saiki	
11:20	Dorsal Stream Contribution to the Configural Processing of Faces V. Zachariou, Z. Safiullah, L. Ungerleider	
11:40	The Role of Perceptual Load in Processing Distractor fearful faces in Social Anxiety M. Theodorou, N. Kostantinou, G. Panayiotou, S.Vrana, F. Nicolaou, G. Moloney, D. Berry	
11:00 – 12:00	Emotion II   Room: Amoroza B-C	
11:00	Going through the emotions on the space-time continuum   N. Thomas, M. Takarangi	

11:00 – 12:00	Emotion II   Room: Amoroza B-C
11:00	Going through the emotions on the space-time continuum   N. Thomas, M. Takarangi
11:20	Embodiment, transcendence and empathy: effects of Yoga and Mindfulness practice on emotion recognition   C. Urgesi, D. Dorjee, P.E. Downing
11:40	Impact of anger and happiness on the attentional networks F. Techer, G. Michael, M. Vurpas, Y. Pierson, A. Fort, C. Jallais

11:00 – 12:00	Memory and categorisation   Room: Amoroza D
11:00	Role of attention in enhancement of emotional memory: short- and long-delay retrieval H. Chainay, A. Sava, Z. Bouazza, C. Joubert, G. Plancher
11:20	A short nap promotes implicit and explicit memory performance in tactile search L. Assumpcao, Z. Shi, X. Zang, M. McAssey, S. Gais, H.J. Müller, T. Geyer
11:40	Feature position and head saliency but not labels facilitate categorisation in adults J. Batinić, B. Lalić, L. Taxitari, V. Kovic

12:00 – 13:00	<b>Keynote Lecture 4:</b> Language from an embrained perspective: It is hard to give a good lecture <b>Peter Hagoort</b>   <b>Room: Akamas A-B-C-D</b>
13:00 – 13:30	Conference closing