



Programme

Monday, November 3, 2008 (Pre-conference Workshop)

09.00 - 10.00

Registration for Pre-Conference Workshop

Michael Turvey and Claudia Carello

"Sport and the Science of Complexity: The Self-organization of Action-perception"

10.00 – 13.00

Pre-Conference Workshop (Nautilus Room)

13.00 – 14.30

Lunch

14.30 – 17.30

Pre-Conference Workshop (Nautilus Room)

Tuesday, November 4, 2008 (Pre-Conference Workshop, opening Day 1)

09.00 (all day)

Registration for conference

10.00 – 13.00

Pre-Conference Workshop (Nautilus Room)

13.00 – 14.30

Lunch

14.30 – 17.30

Pre-Conference Workshop (Nautilus Room)

20.00 – 20.30

Open Ceremony

20.30 – 21.15

Keynote 1 (Nautilus Room)

Chair: Cathy Craig

David Lee "Natural solutions to complex problems"

21.15 – 22.00

Keynote 2 (Nautilus Room)

Chair: Jia Yi Chow

Keith Davids "The athlete-environment relation as a complex system: Implications for sport pedagogy"

Comment from a Coach's perspective: "The advantage of looking into sports from a complex systems approach", José Curado.



Wednesday, November 5, 2008 (Day 2)

8.30 – 10.00 (parallel sessions)

Parallel Symposium 1 "Bronfenbrenner's bioecological theory" (Buzios Room)

Chair: Ruy J. Krebs

Fernando Copetti et al, "Personal attributes of young tennis players interpreted by the bioecological model"

Carlos A. Ferreira Neto et al, "The ecological map as a representation of the macrosystem: a strategy to analyze sport programs for children"

Ruy J. Krebs et al, "Ecological transitions in elite athlete careers"

Free Communications 1 (Nautilus Room)

Chair: Raoul Bongers

Kerstin Witte et al, "Applying a nonlinear approach to describe movement coordination in sport"

Sarah Calvin et al, "On the coupling in bimanual coordination task including rhythmic and discrete movements"

Melvyn Roerdink et al, "Unraveling the informational basis of anchoring in rhythmic visuomotor tracking"

Richard Schmidt, "Coordination Dynamics of Natural Social Interactions"

Richard Shuttleworth et al, "Investigating player decision-making within a sub-system: The role of coordination dynamics"

10.00 – 10.30

Coffee-break

10.30 – 11.30

Keynote 3 (Nautilus Room)

Chair: Peter Beek

Yeou-Teh Liu et al, "Bifurcation and Self-Organized Criticality in Motor Learning"

11.30 – 13.00

Symposium 1: "Multimodal Perception-Action Dynamics" (Nautilus Room)

Chair: Benoit Bardy

Thomas A. Stoffregen et al, "Emergent information for multimodal perception and control"

Bruno Mantel et al, "Intermodal perception of whether an object is within reach"

Antonio Frisoli et al, "In-door skill training in rowing practice with a VR based simulator"

(Presenter: Emanuele Ruffaldi).

13.00 – 14.30

Lunch



14.30 – 16.00 (parallel sessions)

Parallel Symposium 2: "Perception-action coupling in complex skills" (Nautilus Room)

Chair: Reinoud Bootsma

Reinoud J. Bootsma et al, "Mechanical and informational influences of the organisation of the giant circle on the high bar in gymnastics"

Gilles Montagne et al, "Intercepting moving objects: does predictive information matter?"

Frank Zaal et al, "Locomotion initiation times when running to intercept virtual fly balls"

Free Communications 2 (Buzios Room)

Chair: Tim McGarry

Bruno Travassos et al, "Improving the understanding of team Sports performance"

Jaime Sampaio et al, "Basketball game perturbations according to game context and conditions"

Vanda Correia et al, "Dynamics of players' positioning behavior patterns in Rugby Union"

Felix Lebed, "The logical model of team sporting game as a conflict of independent complex systems"

Anna Volossovitch et al, "The Influence of the pace of match on the dynamic of handball game"

16.00 – 16.30

Coffee-break

16.30 – 18.00 (parallel sessions)

Parallel Symposium 3: "Non-linear approaches to the study of sport games" (Nautilus Room)

Chair: Duarte Araújo

Tim McGarry "Space-time patterns in individual and team sports"

Peter Beek "Reflections on match analysis in soccer: Local, semi-local and global measures"

José Mendes et al "Networks as a method to analyze the dynamics of collective behaviors: an exploratory approach with water polo."

Free Communications 3 (Buzios Room)

Chair: A. St Clair Gibson

Natàlia Balagué et al, "Dynamics of volition states during exercise until failure"

Jim Golby et al, "The effects of playing computer games during exercise on psycho-physiological parameters"

Florentino Huertas et al, "Temporal course of attention in rest and different cycling intensities"

Jonas Poderys et al, "Body functioning assessment problems of elite athletes"

Alfonso Vainoras et al, "Hysteresis of changes in physiological indices during physical workload and recovery of football players during exercise stress test"



Thursday, November 6, 2008 (Day 3)

8.30 – 10.00 (parallel sessions)

Parallel symposium 4: "Complex Systems Approach to Creativity in Sport" (Buzios Room)

Chair: Daniel Memmert

Daniel Memmert "Game Test Situations: Assessment of Game Creativity in Ecological Valid Situations"

Jürgen Perl et al, "Game Creativity Analysis by by Means of Artificial Neural Networks"

Robert Hristovski et al, "Metastability and Situated Creativity in Sport"

Free communications 4 (Nautilus Room)

Chair: Richard Schmidt

James Croft et al, "Are visual strategies in cricket batsmen affected by ball speed?"

Rita Cordovil et al, "Children's locomotion on slopes: the effects of visual and tactile information"

Pedro Esteves et al, "The posture of defenders determines the direction of drive in basketball"

Matt Dicks et al, "Gaze and movement behaviours of association football goalkeepers under different task constraints of the penalty kick"

José Eduardo Lopes et al, "The dynamics of decision making for penalty takers and goalkeepers in association football"

10.00 – 10.30

Coffee-break

10.30 – 11.30

Keynote 4 (Nautilus Room)

Chair: Duarte Araújo

Jerome Busemeyer "How can one use quantum probability and dynamics to build models of human cognition and decision making?"

Announcement of the next ICCSS by Alfonsas Vainoras

11.30 – 13.00

Symposium 2: "Calibration and Education of attention in perception-action coupling" (Nautilus Room)

Chair: Geert Savelsbergh

Geert Savelsbergh et al, "Goalkeepers learn to convergence to more useful information for stopping a penalty"

Peter Beek et al, "Attunement and calibration in dynamic touch"

John Van der Kamp et al, "Infant's convergence to more useful information in the control of catching"

13.00 – 14.30

Lunch



14.30 – 16.00

Poster Session 1 (25 posters)

Chairs: Helder Lopes & Jürgen Perl

Ana Vanesa Valero-Garcia et al, "Executive function and manual dexterity"

Catarina Fernando et al, "Expedition-Strategies, Performance, Education- The complexity efficiency"

David Catela et al, "Catastrophe flags in children and adults phase transitions in locomotion"

David Catela et al, "Catastrophe flags: adult's and elderly' perception of tool affordance"

David Jacobs et al, "InforMation, learning and the Müller-Lyer "illusion"

Endre Kadar et al, "Global strategies in the negotiation of a triple bend at high speed:

An analysis of gaze patterns"

Endre Kadar et al, "Invariant functions in driving through a gate of variable size"

Francisco J. Moreno et al, "Analysis of perceptual and motor patterns variability in relation to Motor Performance and learning"

Harjo de Poel et al, "The effect of movement amplitude on bimanual coordination: Comparison of three stability measures"

Humberto R.Souza et al, "Velaqua: A Robot to Acquire Data of Subaquatic Swimming" (Presenter: Jorge Campaniço)

I-Chieh Lee et al, "Performance and principal component analysis of movement coordination while learning to ride a unicycle"

Jorge Ibáñez et al, "Towards a dynamic field model of inhibition of return"

Leandro N. Castro et al, "Zaifo Target System: A Computer Vision Tracking System for High-Performance Swimmers" (Presenter: Jorge Campaniço)

Manuel Varlet et al, "Postural Synchronization in interpersonal visually coupled situation" (Presenter: Benoit Bardy)

Marcos Fernandez et al, "Performance in the haptic parallelity task depend on the exploratory pattern"

Margot van Wermeskerken et al, "The development of infants' reaching in occlusion situations: A cross-sectional study"

Maria Teresa Cattuzzo et al, "Motor learning as a cyclical and continuous process: The instability-stability cycle in a serial tracking task"

Mei-Hua Lee et al, "Characteristics of the transition from Spontaneous to reaching movements in Infancy"

Oscar Freitas et al, "Detection of Counter-attack and Fast Attack interaction patterns in Handball" (Presenter: Jorge Campaniço)

Perrine Guerin et al, "Optical flow influences stabilization and efficiency of fast speed walking" (Presenter: Benoit Bardy)

Philip Kearney et al, "Methods to measure functional changes in the trunk action in overarm throwing"

Rodolfo Novellino Benda et al, "Is Variability of an action program after and before stabilization of distinct nature?"

Rui Mendes et al, "Model Demonstration angle and motor learning"

Ya-ting Yen et al, "Rest between practice sessions inspires insight: learning a mirror tracing task with different practice schedules"



Yngve Sommervoll et al, "The effects of gender and training experience on body segments' contributions in overarm throwing"

16.00 – 16.30

Coffee-break

16.30 – 18.00 (parallel sessions)

Parallel Symposium 5: "Body, Complexity, eco-fractality and Sport" (*to be confirmed*)

Chair: João Mateus

Paulo Cunha e Silva "The fractal body in sports"

João Gabriel Caldeira "Homodynamic action: on the way to a chaocology of man in sports"

João Mateus "Game Instant management and the Echo-Fractal Coaching/Training Team Sport Games (TSG) Theory"

Free communications 5 (Nautilus Room)

Chair: Gilles Montagne

Ruud van der Weel et al, "Analysing infants' brain responses to looming from an ecological perspective "

Cathy Craig et al, "Neural activation and tau-dot: how does the brain respond to impending collisions?"

Matthew Rodger et al, "Tau-G coupling of full body movement in experts and novice clarinettists"

David Mann et al, "Performance maintenance and emergent behavior as a result of refractive blur"

Bruno Travassos et al, "How futsal players decide when to pass: perceiving affordances in competition"

ENYSSP Workshop (Buzios Room)

Chair: Lara Lima

"European Network of Young Specialists in Sport Psychology "

Friday, November 7, 2008 (Day 4)

8.30 – 10.00 (parallel sessions)

Parallel Symposium 6: "Tool for Applied and Contextual Time-series Observation" (Buzios Room)

Chair: Orlando Fernandes

Orlando Fernandes et al, "Validation of the Tool for Appplied and Contextual Time-series Observation"

Ricardo Duarte et al, "Interpersonal dynamics in team sports: the role of TACTO and its applications"

Hugo Folgado et al, "Analysing Complexity using Tool for Appplied and Contextual Time-series Observation"



Free Communications 6 (Nautilus Room)

Chair: João Barreiros

Henrike Adler et al, "On the way to an ecological balance assessment"

Cornelis van de Kamp et al, "Is grasping in prehension and in catching controlled the same way?"

Raoul Bongers et al, "The effect of rod length on the trajectories of reaching movements"

Paola Cesari et al, "Action Anticipation and motor resonance in elite basketball players"

David Jacobs et al, "Training regimens, manifolds, and vector fields"

10.00 – 11.30

Coffee-break

and

Poster Session 2 (25 posters)

Chairs: Robert Hristovski & João Prudente

Angelino Gonçalves et al, "The use of visual information in cricket"

Rui Marcelino et al, "Influence of set number on home advantage in high-level volleyball" (Presenter: Jaime Sampaio)

António Paulo Ferreira et al, "Dynamics of coach's game practical knowledge in basketball" (Presenter: Fernando Gomes)

António Vicente et al, "A penalty kick: The complexity way!"

Caroline Whyatt et al, "Motor Deficits in Autism"

David Ferreira et al, "The influence of the goal positional constraint in the offensive decisional process in Roller-Skate Hockey"

Filipe Melo et al, "Effect of the roller skating practice on postural control"

Florentino Huertas et al, "Cognitive and attentional development in children.

Relationship with systematic collective sport practice"

Francesca Giulia Pecorella et al, "The dynamics of self efficacy in Basketball. The influence of injury in the player's and team's self-efficacy"

Gareth Watson et al, "Collision Detection in Rugby Union: What variables are key in assessing whether or not a gap is 'makeable'?"

Geoffroy Gautier et al, "Postural Dynamics in handstand"

Helder Lopes et al, "Innovation in Sport, Complexity and Change"

Hsiu Hui Chen et al, "The quantification of PCA and NPLCA on change of DF in pedalo locomotion skill learning"

Hsiu Hui Chen et al, "The structured information for discriminating the table tennis serves"

Javier Sampedro et al, "Coordination parameter in different skills and sports"

João Gois et al, "Collective Decision making in young soccer players"

Kerstin Witte et al, "Dynamical systems approach to describe athletic performance"

Lara Lima et al, "A qualitative study on decision making process in paragliding"

Maria Helena S. Ramalho et al, "Activities practiced in the recreation in Physical Education classes and leisure in initial serie schools in Santa Cruz do Sul-RS-Brasil"

Olaf Binsch et al, "Ironic effects in penalty shooting: Avoid the to-be-avoided!"

Paulo Vicente João et al, "Decision Making of setter in Volleyball game"



Sami Kalaja et al, "The relationship between self-determined motivation, goal orientations, perceived competence, and fundamental movement skills in Finnish Physical education"

Sebastien Brault et al, "1 vs. 1: How do we anticipate the direction in which a player will run?"

Timo Jaakkola et al, "The relationships between enjoyment, perceived competence, fundamental movement skills, and physical activity in Finnish physical education"

Yen-Chao Wang et al, "Correlations between skills of individual players and team performance in volleyball"

11.30 – 13.00

Symposium 3: "Complex movement analysis for complex training approaches" (Nautilus Room)

Chair: Wolfgang Schöllhorn

Wolfgang Schöllhorn "Complex movement analysis for complex training approaches"

Hendrik Beckmann et al, "Optimal range of variation in hockey technique training"

Daniel Janssen et al, "Analysing learning approaches by means of complex movement pattern analysis"

13.00 – 14.30

Lunch

14.30 – 16.00 (parallel sessions)

Parallel Symposium 7: "Complex Systems Approach to Fatigue" (Nautilus Room)

Chair: Natàlia Balagué

Allan St. Clair Gibson "Complex System Control of Activity During Fatiguing Exercise"

Alfonso Vainoras et al "Evaluation of cardiovascular complexity in cycling until failure"

Robert Hristovski et al "Task failure can be explained by a general underlying mechanism"

Free Communications 7 (Buzios Room)

Chair: Frank Zaal

David Catela et al, "Dynamical Effects of relative position on Basketball set shot"

Harjo de Poel et al, "Distinctive effects of speed and accuracy demands in the speed-accuracy trade-off"

Laure Fernandez et al, "Kinematic organisation of movement under (local) informational and (global) timing constraints"

Raoul Huys, "The speed-accuracy trade-off: Distinct realizations under distinct timing"

Yannick Wamain et al, "Matching dynamic landscapes between handwriting patterns production and graphic shapes perception"

16.00 – 16.30

Coffee-break



16.30 – 18.00 (parallel sessions)

Parallel Symposium 8: "Tactical match analyses in ball team sports: New perspectives from a dynamical system approach?" (Buzios Room)

Chair: Koen Lemmink

Koen A.P.M. Lemmink "Analyses of tactical patterns in ball team sports; from 1 versus 1 to small sided games"

Pedro Passos et al, "Power law distributions in pattern dynamics of collective behaviors in Rugby Union: Phenomena in a region of self-organised criticality?"

Wouter G.P. Frencken "Small-sided games in soccer and goal scoring opportunities"

Free Communications 8 (Nautilus Room)

Chair: Thomas Stoffregen

Herbert Ugrinowitsch et al, "Effects of Perceptive Perturbation and Level of Stabilization In Motor Learning Adaptability"

Francisco J. Moreno et al, "Enhanced variability applied to reduce intrinsic variability under static task constraints. Application to Tennis serve Training"

Ludovic Seifert et al, "Analysis of inter-limb coordination and its variability in swimming"

Rita Cordovil et al, "Adults' perception of children's reaching capability: a preliminary study"

Rita Cordovil et al, "Perceiving height and overhead reachability of children: influences of individual and task constraints" (Presenter: João Barreiros)

Saturday, November 8, 2008 (Day 5)

8.30 – 10.00 (parallel sessions)

Parallel Symposium 9: "Collective Decisions and Actions - New challenges for research, training and match analysis" (Buzios Room)

Chair: Pedro Passos

João Milho et al "Collective Decision Making Inter and Intra-team analysis – New challenges to Match Analysis"

Pedro Passos et al "Collective Patterning in Decision making and Actions - An overview"

Sofia Fonseca et al "Agent based modeling of interpersonal interactions in rugby union: an extension of a 1 v 1 model"

Free Communications 9 (Nautilus Room)

Chair: Martin Lames

Patrícia Pinto et al, "Specificity of context constraints on representative tasks designed for the improvement of police shooting performance"

Miguel Moreira et al, "Matrix of analysis for sports tasks. Taxonomic Surf Model"

Kelly Ohara et al, "A new approach to understanding tennis interaction"

Steffen Schiedek, "Anxiety, performance and catastrophe theory: Studies on the optimal arousal level for parachuting"

Pieter Tijtgat et al, "Differences in performance and kinematics when catching under block versus random temporal constraints"



10.00 – 10.30

Coffee-break

10.30 – 11.30

Keynote 5 (Nautilus Room)

Chair: Reinoud Bootsma

Michael Turvey "The Ecological Perspective, Past and Future"

11.30 – 13.00

Symposium 4: "Time-Scales and Fluctuations in Motor Learning" (Nautilus Room)

Chair: Gottfried Mayer-Kress

Gottfried Mayer-Kress, "Time-Scales and Fluctuations in Motor Learning"

Karl Newell et al, "Time Scales and Variability in Motor Learning and Development"

Jia Yi Chow et al, "A Nonlinear Perspective to Motor Learning in Multi-articular

Interceptive Actions"

13.00 – 14.30

Lunch

14.30 – 16.00 (parallel sessions)

Parallel Symposium 10: "Influence of different constraints on movement generation by means of observational and T-Pattern analysis" (Buzios Room)

Chair: Carlota Torrents Martin

Marta Castañer et al "Influence of task constraints in creative dance depending on the kind of instruction"

Carlota Torrents et al "Influence Of The Partner On Motor Skills Generation Dancing Contact Improvisation"

Jordi Fernández et al "Identifying and analyzing the construction and effectiveness of offensive plays in basketball by using systematic observation" (Presenter: Oleguer Camerino)

Free Communications 10 (Nautilus Room)

Chair: Chris Button

Larissa Galatti et al, "Sport pedagogy, Science and team games: a contemporary view."

Thomas Jaitner et al, "An ambient intelligence system to assist team training in cycling"

John Kiely, "Coping with Complexity in elite training planning"

Anne-Claire Macquet, "Time Organization in the complex and dynamic context of sport training"

Martin Lames et al, "Oscillations in Football – order and disorder in spatial interactions between the two teams"

16.00 – 16.30

Coffee-break

16.30 – 17.00

Closing Ceremony (Nautilus Room)