

CALL FOR PAPERS – CASYS'05 - International Conference on COMPUTING ANTICIPATORY SYSTEMS – LIEGE, Belgium, August 8-13, 2005 at HEC-ULg – organized by asbl CHAOS - INVITED SPEAKERS: Brian D. Josephson, Nobel Prize in Physics – John Horton Conway - Mitchell J. Feigenbaum

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– Up-dated on AUGUST 2, 2005 –

CASYS'05

Seventh International Conference on *Computing Anticipatory Systems*

Liège, Belgium, August 8-13, 2005



To be held at HEC Management School - University of Liege
14 rue Louvrex, B-4000 Liège, Belgium

Organized by ASBL CHAOS,
Centre for Hyperincursion and Anticipation in Ordered Systems,
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<http://www.ulg.ac.be/mathgen/CHAOS> - Daniel.Dubois@ulg.ac.be

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Vice-President: [Prof. Adel F. Antippa](#), Physique, Université du Québec à Trois-Rivières (Canada)

Invited Speakers:

[Prof. Brian D. Josephson](#), NOBEL PRIZE IN PHYSICS, Cambridge University (UK)

[Prof. John Horton Conway](#), Finite Mathematics, Princeton University (USA)

[Prof. Mitchell J. Feigenbaum](#), Mathematical Physics, Rockefeller University (USA)

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SCOPE

The scope of CASYS'05 will be oriented to theoretical developments and applications in the modelling and computing of anticipatory systems in any fields of natural and artificial systems.

A computing anticipatory system is a system that computes its current states in taking into account its past and present states but also its potential future states.

Strong anticipation refers to an anticipation of events built by or embedded in a system.

Weak anticipation refers to an anticipation of events predicted or forecasted from a model of a system.

CASYS'05 PROGRAM

UP-DATED ON AUGUST 2, 2005

Each Conference Room is equipped with:

- a COMPUTER Windows 2000 Professional (diskette, CD, DVD, USB memory stick),
- a PC BEAMER PROJECTOR, and
- an OVERHEAD PROJECTOR for transparencies.

CASYS'05 TIMETABLE
REGISTRATION: Monday August 8, 8:00-10:00 at HEC Management School - University of Liege 14, rue Louvrex, Liège
RECEPTION AT THE CITY HALL: Monday August 8, 12:30-13:30 Hôtel de Ville de Liège, Place du Marché, Liège
BANQUET: Thursday August 11, 20:00-23:00 Restaurant: Le Duc d'Anjou, 127, Rue des Guillemins, Liège <u>MENUS</u> for the banquet

PLENARY SESSIONS: ROOM 030

OPENING SESSION: Monday August 8, 10:00-12:00

Opening Address

Louis Esch (Belgium), Academic Director of HEC-ULg

Instantaneity, Retardation and Anticipation in Einstein's Relativity

Daniel M. Dubois (Belgium), President of CASYS'05

Spacetime from Antiquity to Anticipation

Adel F. Antippa (Canada), Vice-President of CASYS'05

CHAOS AWARD Ceremony: Monday August 8, 18:30-20:30

Chairpersons: Marcel Ausloos & Daniel M. Dubois

Galileo Revisited: Relativity and Dynamical Scaling

Mitchell Jay Feigenbaum (USA), Invited Speaker

Abstract: I shall present two fundamentally distinct topics, unified by the genius of Galileo. The first is the deduction of the theory of relativity, with no recourse to the speed of light. This can all be done by carefully considering Galileo's extraordinary understanding of relativity and inertia, and should have been done long before the 20th century. The second topic, scaling at the onset of chaos, also belies the spirit of Galileo, with his invention of kinematics, dynamics and scaling. I shall discuss dynamical scaling, the (somewhat shallow) thermodynamic (fractal) exponents, and some new exponents that enjoy exceptionally rapid convergence with orbit length. The talk is pedagogic (for example, the unaware listener will learn why " $E=mc^2 / (1 - v^2/c^2)$ " is decidedly not " $E=mc^2$ "), but will become technical by its end.

CASYS AWARD Ceremony: Tuesday August 9, 18:00-20:00

Chairpersons: Daniel M. Dubois & Peter Marcer

The Surreal Numbers

John Horton Conway (USA), Invited Speaker

Abstract: Over a century ago, Georg Cantor discovered the infinite ordinal numbers, that continue where the traditional counting sequence 0,1,2,3,... leaves off, and can be used to count arbitrary collections.

The Surreal Numbers are a very simply-defined system of numbers that includes not only the familiar real numbers and the infinite ordinal numbers, as well as their negatives and reciprocals (which are of course infinitesimal numbers), but hosts of other numbers too.

After discussing the infinite ordinal numbers, I'll explain just what the Surreal numbers are, and tell you how they were found by studying children's games.

Invited Lecture: Friday August 12, 18:00-20:00

Chairpersons: Adel F. Antippa & Daniel M. Dubois

General Principles for Brain Design

Brian D. Josephson (UK), Invited Speaker

General Meeting of CHAOS ASBL: Saturday August 13, 9:30-10:30

Session in Memory of Michel Bounias: Saturday August 13, 10:30-12:30

Chairpersons: Marc Bounias & Daniel M. Dubois

Science Responsibility and Scientists Concern for Evolution of Planet Earth: a Manifesto on Action for World's Peace and Harmony

M. Bounias and K.E. Wolff, G. Tsirigotis, V. Krasnoholovets, M. Kljajić, J. Chandler, V. Burdyuzha, A. Bonaly (France, Germany, Greece, Ukraine, Slovenia, USA, Russia)

Michel Bounias, Founder and Coordinator of "The Global Project"

by Marc Bounias (France)

BEST PAPER AWARD Ceremony: Saturday August 13, 12:30-13:30

Closing Cocktail

SYMPOSIUMS TIMETABLE
SYMPOSIUM 1: ANTICIPATORY SYSTEMS, INCURSION, HYPERINCURSION, PREDICTIVE MODELS
SESSION 1.1. MONDAY 8, 15:00-18:00, ROOM 126
Chairpersons: John Collier & Michele Malatesta
Object-Oriented Representations of Formal Theories as Tools for Simulation of Anticipatory Systems , Eugene Kindler (Czech Republic)
Anticipation as a Bridge Theory and Praxis , Wiktor H. Adamkiewicz (Poland)
Some Two-Steps Discrete-Time Anticipatory Models with 'Boiling' Multivaluedness , Alexander S. Makarenko, Alexander S. Stashenko (Ukraine)
Anticipation of Mouse Pointer Movement Using Pressure Sensors , Hidetoshi Nonaka, Masahito Kurihara (Japan)
SESSION 1.2. TUESDAY 9, 14:00-18:00, ROOM 030
Chairpersons: Wiktor Adamkiewicz & Mark Burke
Conditions for Fully Autonomous Anticipation , John Collier (South Africa)
Anticipation and Granularity , Tetsuya Murai, Yasuo Kudo (Japan)
Anticipation, Reversibility and Random Selection in the Recursive Functions that Produce Chaotic Maps , Giuseppe Furnari (Italy)
Memory in St Augustine's Philosophy as an 'Anticipation' of Memory in Dubois' Computing Anticipatory Perspective , Michele Malatesta (Italy)
Probability as Sentence Sets and Its Incursive Calculus , Arturo Grappone (Italy)
Anticipative Anti-Anti-Anthropomorphism , Ronald Cottam, Willy Ranson, Roger Vounckx (Belgium)
SESSION 1.3. THURSDAY 11, 14:00-18:00, ROOM 126
Chairpersons: Eugene Kindler & Alexander Makarenko
Avoiding Extinction in a Managed Single Species Population Model by Means of Anticipative Control , Mark E. Burke (Ireland)
An Anticipatory Extension of Malthusian Model , Marat Akhmet, Hakan Oektem, Stefan Pickl, Gerhard W. Weber (Turkey, Germany)
A Nested Detector with a Fractal Temporal Interface , Susie Vrobel (Germany)
Proposal on Constructive Way of Anticipation in Cognition , Sohei Wakisaka, Yukio-Pegio Gunji (Japan)
Anticipatory Aspects of Computational (Meta) Heuristics via Topos Theory , Fernando Naufel do Amaral, Edward Hermann Haeusler (Brazil)
Complex Network Synchronization , Juergen Kurths (Germany)
SYMPOSIUM 2: MATHEMATICAL MODELLING, CHAOS THEORY, DYNAMIC, LOGIC AND CONTROL SYSTEMS
SESSION 2.1. TUESDAY 9, 8:30-12:30, ROOM 126
Chairpersons: Michael Heather & Edwina Taborsky
New Examples for a Duality Principle in the Theory of Dynamical Systems , Constantin Corduneanu, Yizeng Li, Mehran Mahdavi (USA)
A Mathematical Theory of Dynamics Systems Built on Differential Calculus in Semi-normed Spaces , Eufrosina Otlacan (Romania)

Emergence of Collective Beings – Systemics, Collective Behaviours, Dynamic Usage of Models , Gianfranco Minati (Italy)
The Virtual Reality as an Anticipative Concept in Warehouse Optimization in Uncertain Environment , Kljajic Miroljub, Davorin Kofjac (Slovenia)
From the Frequencies to the Forecasting Processes , Jean Alphonse Doucet (Belgium)
SESSION 2.2. THURSDAY 11, 14:00-18:00, ROOM 030
Chairpersons: Jean Alphonse Doucet & Gianfranco Minati
Approaching Geophysical and Biological Catastrophes , Konstantin Karamanos, K. Eftaxias (Greece, Belgium)
Constrained Thermal Plant Control Based on the First Order Models , Martin Kamenský, Mikuláš Huba (Slovakia)
Constrained Thermal Plant Control Based on the Second Order Models , Martin Kamenský, Mikuláš Huba (Slovakia)
The Nature of the Sign as a WFF – A Well-Formed Formula , Edwina Taborsky (Canada)
Ergodic Properties of the Relaxation Phase in Nonlinear Dynamical Systems , Konstantin Karamanos, I. Kapsomenakis, F. K. Diakonou (Belgium, Greece)
Models and Anticipatory Systems , Bertil Ekdahl (Sweden)
SESSION 2.3. FRIDAY 12, 8:30-12:30, ROOM 030
Chairpersons: Miroljub Kljajic & Eufrosina Otlacan
The Chaotic Maps as Sections of Mandelbrot Type Set , Giuseppe Furnari (Italy)
Categories and Anticipation , Michael Heather, Nick Rossiter (United Kingdom)
A Non-Mechanical Logic for the Nano, Chemical and Biological Sciences , Jerry LR Chandler (USA)
Complete and Linear Hedge Algebras, Fuzzyness Measure of Vague Concepts and Linguistic Hedges and Application , Nguyen Cat Ho, Nguyen Van Long (Vietnam)
The Study of the Adaptational Maximum Phenomenon in Complex Systems , M. Ignatyev (Russia)
The Integrity Criterion Considering a System's Structure as a Whole , Sergey V. Kirpich, Eduard M. Soroko, Mechislav S. Radyuk (Belarus)
SYMPOSIUM 3: PHYSICS, QUANTUM MECHANICS, RELATIVITY, FIELD THEORY, GRAVITATION
FOCUS SESSIONS FOR THE 2005 INTERNATIONAL YEAR OF PHYSICS
SESSION 3.1. MONDAY 8, 15:00-18:00, ROOM 030
Chairpersons: Domitian Popescu & Pawel Siwak
A Conceptual Interpretation of Heisenberg's Uncertainty Relation , Karl Erich Wolff (Germany)
Cosmological Constant Problem Solution Valid for Both Planck's and Cosmological Scales , Branco Novakovic, Dario Novakovic, Alen Novakovic (Croatia)
A toy-world, that Satisfies Some Principles of El Naschies E-Infinite Theory , Hanns J. Sommer (Germany)
Thermonuclear Fusion Research Progress in Europe and the Way to the Reactor , Raymond Koch (Belgium, Germany)
SESSION 3.2. TUESDAY 9, 8:30-12:30, ROOM 030
Chairpersons: Adel F. Antippa & Branco Novakovic

Electrodynamics and Graph Pregeometry, Longstanding Notions Gazed Anew , Vincent Morin (France)
Non-Locality and Mixed Potential Universe , Ignazio Licata (Italy)
Building the Space-Time Structure in Theories of Physics , Gilles Nibart (France)
How Can Quantum Systems Implement Self-referential Logic? A Simple Question with a Catastrophic Answer , John Douglas Small (United Kingdom)
Anticipation as a Non-Local Correlation? Experimental Investigation of Generalized Quantum Theory , Nikolaus von Stillfried, Harald Walach (Germany)
SESSION 3.3. WEDNESDAY 10, 8:30-12:30, ROOM 030
Chairpersons: Raymond Koch & Karl Erich Wolff
Imaging the Iterons of Automata , Pawel Siwak (Poland)
Reactive Colimit: a View of Internal Measurement Based on a Hamiltonian System , Moto Kamiura, Yukio-Pegio Gunji (Japan)
What the Harmonic Oscillator Teaches us About Energy, Discretization and Spacetime ? <i>Part 1 - The Dual Incurive Model of the Discrete Harmonic Oscillator: An Analytical, Numerical and Graphical Study</i> <i>Part 2 - The Superposed Incurive Model of the Discrete Harmonic Oscillator</i> <i>Part 3 - Exploratory study of the relation between Anticipation, Spacetime Discretization, and Uncertainty</i> Adel F. Antippa, Daniel M. Dubois (Canada, Belgium)
SESSION 3.4. THURSDAY 11, 8:30-12:30, ROOM 030
Chairpersons: John Douglas Small & Hanns J. Sommer
A Description of Entropy as a Level-Bound Quantity , Susie Vrobel (Germany)
Restoration of Time-Symmetry I: Advanced Electromagnetic Fields , Michael Ibison (USA)
About a Theory of the Dual Relativity in a Universe with Three Time and Three Space Dimensions , Daniel M. Dubois, Gilles Nibart (Belgium, France)
The Space Structure, Force Fields and Quantum Mechanics , Volodymyr Krasnoholovets, Ding-Yu Chung (USA)
Experimental Study of Advanced Correlation of Some Geophysical and Astrophysical Processes , Sergey Maratovich Korotaev (Russia)
Infinitesimal Parametrical Families of the Distributions and the Statistical Foundations of Quantum Mechanics , Vadim F.Krotov (Russia)
SESSION 3.5. FRIDAY 12, 14:00-18:00, ROOM 030
Chairpersons: Sergey M. Korotaev & Richard L. Amoroso
Nuclear Mesomerie , Domitian G. Popescu (France)
The Wave Function of Rest Mass , Gilles Nibart, Daniel M. Dubois (France, Belgium)
Restoration of Time-Symmetry II: Particles that Time-Reverse , Michael Ibison (USA)
Dynamics of Cosmological Models with Dark Energy , Adam Krawiec, Marek Szydowski (Poland)
The Mass Deficiency Correction to the Classical and Quantum Mechanical Descriptions: <i>Alike Metric Change and Quantization</i> Nearby an Electric Charge, and a Celestial Body? Tolga Yarman, Vladislav B. Rozanov (Turkey, Russia)
Further Development of the Mie-de Broglie Theory of Quantum Gravity and the Implications for the General Theory of Relativity , E. Paul J. de Haas (The Netherlands)
VIGIER SESSION - FRIDAY 12, 8:30-12:30, ROOM 138 organized by Richard L. Amoroso, Noetic Advanced Studies Institute (USA)

Chairpersons: Daniel M. Dubois & Gilles Nibart
The Physical Implications of Multidimensional Geometries and Measurement , Elizabeth A. Rauscher (USA)
Anticipation and the Teleological Unification of Physical Geometry and the Calculus , Jose G. Vargas and Douglas G. Torr (USA)
The Idiosyncrasies of Anticipation in Demiurgic Physical Unification with Teleparallelism , Jose G. Vargas and Douglas G. Torr (USA)
Categorical Relativity does not need the Lorentz Group , Zbigniew Oziewicz (Mexico)
Descartes' Mechanics – Fourth Generalization of Newton's Mechanics , Gennady I. Shipov (Russia, Thailand)
Bulk Implementation of Quantum Computing: an Anticipatory Systems Approach , Richard L. Amoroso, Geoffrey Hunter (USA-Canada)
SYMPOSIUM 4: COMPUTING SYSTEMS, AUTOMATA, SIMULATION, INFORMATION NETWORKS
SESSION 4.1. TUESDAY 9, 14:00-18:00, ROOM 130
Chairpersons: Christina Amcoff Nyström & Frantisek Hunka
Local Cellular Automata as an Abstract Model of Self-Organizing Process , Taichi Haruna, Yukio-Pegio Gunji (Japan)
A Prototype Implementation of an Anticipatory Reasoning-Reacting System , Feng Shang, Shinsuke Nara, Takashi Omi, Yuichi Goto, and Jingde Cheng (Japan)
Modelling and Simulation of Management Systems with Retardation and Anticipation , Daniel M. Dubois, Stig C. Holmberg (Belgium, Sweden)
Global Coordinating of Multi Agent System Result from Dual Forces Embedded in a Local Agent , Shusaku Nomura (Japan)
The Magic Square as a Benchmark , José Barahona da Fonseca (Portugal)
About Models of Automats at Organization Fault-Tolerant Computing Processes , Alexander A. Sytnik, Claudia P. Vakhleava (Russia)
SESSION 4.2. THURSDAY 11, 8:30-12:30, ROOM 130
Chairpersons: Jingde Cheng & Feng Shang
Mathematical Interpretations of Kernel Ridge Regression , Akira Tanaka, Hideyuki Imai, Mineichi Kudo, Masaaki Miyakoshi (Japan)
Constrained Pole Assignment Control of Double and Triple Integrator , Pavol Bisták, Peter Tapák, Mikuláš Huba (Slovak Republic)
Synthesis of Constrained Controller in Computer Algebra System , Pavol Bisták, Peter Tapák, Mikuláš Huba (Slovak Republic)
An Analysis of Program Phase Behavior and its Predictability , Frederik Vandepute, Lieven Eeckhout, Koen De Bosschere (Belgium)
Cellular Automata with Heterarchical Interaction , Tatsuji Takahashi, Yukio-Pegio Gunji (Japan)
SESSION 4.3. FRIDAY 12, 14:00-18:00, ROOM 130
Chairpersons: Stig C. Holmberg & Akira Tanaka
Anticipation Models in BETA , Frantisek Hunka (Czech Republic)
Demands on Intranets- Viable System Model as a Foundation for Intranet Design , Christina Amcoff Nyström (Sweden)
Persistent Computing Systems as an Infrastructure of Computing Anticipatory Systems , Jingde Cheng, Feng Shang (Japan)

Heterarchical Cognitive Maps: Anticipatory System in Virtual Maze , Daisuke Uragami, Yukio-Pegio Gunji (Japan)
Chaotic Sequences to Improve the Performance of Particle Swarm Optimization , Angus Wu (China)
The Decision of a Goal-Directed Behavior Problem in a Class of Systems Described by one-to-one Transformations , Alexander A. Sytnik, Natalia S. Vagarina (Russia)
SYMPOSIUM 5: SOFT COMPUTING, COMPUTATIONAL INTELLIGENCE, FUZZY SYSTEMS, NEURAL NETWORKS, LEARNING
SESSION 5.1. TUESDAY 9, 8:30-12:30, ROOM 130
Chairpersons: Tadeusz Gerstenkorn & Anita Hakansson
Optimal Decision Making in a Class of Uncertain Systems Based on Uncertain Variables , Zdzislaw Bubnicki (Poland)
An Analysis of Controllable Processes with Uncertainties , Rudolf F. Albrecht (Austria)
A Note on Granular Reasoning and Semantics of Four-Valued Logics , Yasuo Kudo, Tetsuya Murai (Japan)
Augmented Evolutionary Computation Using Genetic Programming , Tadashi Ae, Motoki Kamitani (Japan)
ACADA, An Anticipatory Design Approach , Stig C. Holmberg (Sweden)
SESSION 5.2. THURSDAY 11, 14:00-18:00, ROOM 130
Chairpersons: Tadashi Ae & Rudolf F. Albrecht
A Model of Nitric Oxide Diffusion Based in Compartmental Systems , P. Fernandez Lopez, C.P. Suarez Araujo, P. Garcia Baez, J.L. Simoes da Fonseca (Spain, Portugal)
Quasi-Optical Neural Structures for Model-Based Anticipatory Control , Dobilas Kirvelis (Lithania)
Self-Organizing Neural Network Models for State Anticipatory Systems , Matti Pöllä, Timo Honkela (Finland)
Single-Layer Neural Networks Based on the Nonlinear Threshold Logic Resolving the Parity Problem , Daniel M. Dubois (Belgium)
SESSION 5.3. FRIDAY 12, 8:30-12:30, ROOM 130
Chairpersons: Zdzislaw Bubnicki & Dobilas Kirvelis
Multi Modal Anticipation in Fuzzy Space , Viveca Asproth, Stig C. Holmberg, Anita Häkansson (Sweden)
The Power of Fuzzy Relational Calculus for Knowledge Representation , Etienne E. Kerre (Belgium)
An Anticipatory Reasoning Engine for Anticipatory Reasoning-Reacting Systems , Shinsuke Nara, Feng Shang, Takashi Omi, Yuichi Goto, and Jingde Cheng (Japan)
Fuzzy Model Based Classification of Non Compatible Data: Improvisation on Comprehending Heterogeneous Information , Ananth Kumar Venkateswaran, Vijayarani Ponraj Deepak (India)
Utility and Helpfulness of Probability of the Fuzzy Events in Some Economic Problems , Tadeusz Gerstenkorn, Jacek Mańko (Poland)
SYMPOSIUM 6: COGNITIVE AND NEURONAL BRAIN, MIND, CONSCIOUSNESS, INTENTION, EDUCATION

SESSION 6.1. WEDNESDAY 10, 8:30-12:30, ROOM 130
Chairpersons: Shusaku Nomura & Franz-Günter Winkler
Failure in Anticipation and Plasticity in Perception of Taste , Tohru Moriyama, Sari Yokokawa, Yasuo Tsukahara (Japan)
Surviving in the Bermuda Triangle of Semeiosis , Auke J. J. van Breemen, Janos J. Sarbo (The Netherlands)
Peircean Proto-Signs , Janos J. Sarbo (The Netherlands)
The Implosion of Reality - Schizophrenia, the Anterior Cingulate Cortex and Anticipation , Dieter De Grave (Belgium)
Could Intelligent Tutors Anticipate Successfully user Reactions ? Eugenia Kalisz, Adina Magda Florea (Romania)
Anticipatory Model of European University , Danguole Beresneviene (Lithuania)
SESSION 6.2. THURSDAY 11, 8:30-12:30, ROOM 138
Chairpersons: Tohru Moriyama & Gildas Rouvillois
Another Function for Language and its Theoretical Consequences – How Verbal Action is Used to Comment Action , Isabel Barahona da Fonseca, José Barahona da Fonseca, José Luis Simões da Fonseca (Portugal)
Multi-Temporal Scales in Logical Open Systems , Ignazio Licata (Italy)
Relativity of Mind: Nesting Perspectives , Irina Ezhkova (Belgium)
Evaluation of the Exact Moment of Random-dot Stereogram Cognition by EOG and its Process by EEG , Shusaku Nomura, Kentaro Nakagawa, Tomomasa Nagashima (Japan)
Synergy and Sympoiesis in the Writing of Joint Papers (The Anticipation Within Imagination) , John Wood, Otto van Nieuwenhuijze (United Kingdom, The Netherlands)
Specific Features of Educational Services as Market Products , M. Geryk (Poland)
SESSION 6.3. FRIDAY 12, 14:00-18:00, ROOM 138
Chairpersons: Irina Ezhkova & Otto van Nieuwenhuijze
The Rosetta Stone and the Codes of Central Nervous System , Carmen Paz Araujo, José Barahona da Fonseca, Isabel Barahona da Fonseca, José Luis Simões da Fonseca (Spain, Portugal)
Spacetime Holism and the Hard Problem of Consciousness , Franz-Gunter Winkler (Austria)
A Fractal Model of Consciousness , Gildas Rouvillois (France)
Anticipation and Autoreflexive Consciouness , Isabel Barahona da Fonseca, José Barahona da Fonseca, Armando Monica de Oliveira, José Luis Simoes da Fonseca (Portugal)
Anticipatory Model of Creative Thinking , Danguole Beresneviene, Gediminas Beresnevicus, Dobilas Kirvelis, Ausrine Gumuliauskiene (Lithuania)
Educational Business Enterprise , M. Geryk (Poland)
SYMPOSIUM 7: BIOLOGICAL AND MEDICAL SYSTEMS, GENETICS, EVOLUTION, ECOLOGY, ENVIRONMENTAL MODELS
SESSION 7.1. MONDAY 8, 15:00-18:00, ROOM 138
Chairpersons: Fabio Romeu de Carvalho & Pere Julià
Organic Mathematics: A mathematical Notation for the Ontologic Structures of the Nano, Chemical and Biological Sciences , Jerry LR Chandler (USA)
Figura et Forma –Understanding and Engineering Biological Intelligence? , Salvatore Santoli (Italy)
Neuroimaging Techniques: an Overview of Physical Principles and Capabilities , Ludovico Minati (Italy)

Discrete Tomography: A Joint Contribution by Optimization, Equivariance Analysis and Learning , Oznur Yasar, Gerhard-Wilhelm Weber (Canada, Turkey)
SESSION 7.2. TUESDAY 9, 8:30-12:30, ROOM 138
Chairpersons: Ivan Krivy & Gerhard-Wilhelm Weber
Modelling Procarotic Biochemical Networks With Differential Equations , Jutta Gebert, Nicole Radde (Germany)
Anticipatory Behavior and Intracellular Communication in <i>Physarum Polycephalum</i> , Tomohiro Shirakawa, Yukio-Pegio Gunji (Japan)
Exploring the Complexity of Systems Biology , Philippe De Backer, Joris Van Poucke, Linda Van Speybroeck (Belgium)
Starfish Behavior as an Anticipatory System: its Flexibility in Obstacle Avoidance , Masao Migita (Japan)
Anticipatory Behavior , Pere Julià (Spain)
SESSION 7.3. WEDNESDAY 10, 8:30-12:30, ROOM 138
Chairpersons: Ludovico Minati & Salvatore Santoli
Elucidating the Aetiology of Alzheimer's Disease: A Complex Anticipatory Systems Approach , Paul J. Amoroso, Richard L. Amoroso (USA)
Prevision of Medical Diagnostic Based on Paraconsistent Annotated Logic , Fabio Romeu de Carvalho, Israel Brunstein, Jair Minoro Abe (Brazil)
Identification of Predictable Temporal Patterns of Response During Sertraline Treatment in a General Psychiatric Population Using Recurrent Artificial Neural Network , Ernestina Politi, L. Franchini, E. Smeraldi (Italy)
Synthesis of two Anticipatory Modes in Design and Life-Cycle of Hospitals , Ivan Krivy, Eugene Kindler (Czech Republic)
Computer Simulation of Evolution : Genetic and "Memetic" Ways , Vladimir F. Levchenko, Vladimir V. Menshutkin (Russia)
SYMPOSIUM 8: RISK MANAGEMENT, ECONOMICAL SYSTEMS, SOCIAL MODELS, OPERATIONS RESEARCH
SESSION 8.1. WESNESDAY 10, 8:30-12:30, ROOM 126
Chairpersons: Loet Leydesdorff & Markus Schwaninger
Simulation and Anticipation in Critical Situations Caused by Flooding , Viveca Asproth, Anita Hakansson (Swenden)
Anticipation of Performance Parameters Evolution in a Container Terminal , Violeta Popescu, Eugenia Kalisz (Romania)
Markov Decision Process Model for Optimal Anticipative Airline Seat Inventory Control for Multi-leg Flights , Nicholas A. Nechval, Kristine Rozite, Vladimir F. Strelchonok (Latvia)
Towards Transdisciplinarity: Basic Models of Evolutionary Learning ? , Hellmut Karl Loeckenhoff (Germany)
Modelling of System Growth – An Insight Into the Linguistic Theory of Growth , Kazimierz Turkiewicz, Domenica B. Turkiewicz (Australia)
SESSION 8.2. THURSDAY 11, 8:30-12:30, ROOM 126
Chairpersons: Viveca Asproth & Gundars Berzins
Hyper-incursion and the Globalization of the Knowledge-Based Economy , Loet Leydesdorff (The Netherlands)
Heterogeneous Field Condition Roles on Population Concentration and Fitness , Marcel

Ausloos (Belgium)
The Variance-Free Characterization of Heteroscedastic Normal Variables with an Application in Financial Econometrics , Max V. Moldovan, Nicholas A. Nechval(Australia-Latvia)
Use of System Dynamics and Modelling in Tourism , Tadeja Jere Lazanski (Slovenia)
A Model of Systemic Control , Markus Schwaninger (Switzerland)
SESSION 8.3. FRIDAY 12, 14:00-18:00, ROOM 126
Chairpersons: Hellmut Löckenhoff & Kazimierz Turkiewicz
Improve Supply Chain Management Using Neural Networks and Regressive KPI Relationship Metamodels , Roberto Mosca, Maurizio Schenone, Roberto Revetria (Italy)
Decisional Information System for Safety (D.I.S.S.) Dedicated to the Human Space Exploration Mission , Stéphane Grès, Jean-François Guyonnet (France)
Economic Problems of Anticipating the Development of Technology , Wiktor H. Adamkiewicz (Poland)
Optimal Anticipative Investment Strategy for Project Portfolio , Gundars Berzins, Nicholas A. Nechval, E. K. Vasermanis (Latvia)
The Evolution of Functional Systems; Economic Uncertainty; the Paradox of Power in Democracy and the Equilibrium of Natural Selection Through Nash Equilibria , Emmanuel Chauvet (France)
Human-Machine Interface and Anticipatory / Incursive Neural and Social Tasks: Variety and Invariance Duality , Nicolae Bulz (Romania)
SYMPOSIUM 9: ENGINEERING SYSTEMS, INDUSTRIALMODELLING, OPTIMIZATION, SIMULATION AND CONTROL
SESSION 9.1. MONDAY 8, 15:00-18:00, ROOM 130
Chairpersons: Jean Alphonse Doucet & Nicholas Nechval
Virtual Data Models in Anticipatory System of Railway Transportation , Eugene Kopitov, Vasilijs Demidovs (Latvia)
Telematic Transport System Model , Krzysztof Nowicki, Wojciech Wawrzyński (Poland)
Anticipatory Systems near Bifurcation Points , Péter B. Béda (Hungary)
An Algorithm for Nonlinear Mixed Integer Optimization Problem , Ryszard Klempous (Poland)
SESSION 9.2. TUESDAY 9, 14:00-18:00, ROOM 126
Chairpersons: Péter B. Béda & Stefan Pickl
Adaptive Model for Prediction of Inspections in Multiple Systems Under Availability Requirement , Konstantin N. Nechval, Nicholas A. Nechval, Uldis Rozevskis (Latvia)
Using Meta-heuristic Models for Simulation of Sediment Transport in Rivers , Saeed Alimohammadi, Ebrahim Jabbari (Iran)
A Stochastic Dynamic Programming Model with Sequentiel Fuzzy Partitioning for Reservoir Operations , Seyed Jamshid Mousavi, Mommad Hossein Farjam (Iran)
Anticipating Operational and Wash out Conditions in Biotechnological Reactors , M. Sbarciog, Mia Loccufier, Erik Noldus (Belgium)
Artificial Neural Network for Control Nonlinear of Bioreactors and Optimisation of Catalytic Systems , Vipul A. Shah, N. S. Jayakumar (India)
Constrained Pole Assignment Control Real & Complex Poles , Mikuláš Huba (Slovak Republic)

SESSION 9.3. FRIDAY 12, 8:30-12:30, ROOM 126
Chairpersons: Ryszard Klempous & Gildas Rouvillois
Nested Anticipation in Design of Reconfigurable Manufacturing Systems , Pascal Berruet, Eugene Kindler (France, Czech Republic)
An Automatic Pilot to Make <i>Perfect Loops</i> Varying Only Gflyup Through the Loop as an Anticipatory System , José Barahona da Fonseca (Portugal)
Automatic Clustering of Rolling Element Bearings Defects with Artificial Neural Networks , R. Faglia, M. Tiboni, M. Antonini (Italy)
Advanced Methods for Time-Varying and Non-Linear Processes Using Fuzzy Logic , Ahmed Hafaiifa, F. Laaouad, A. Iratni (Algeria)
SYMPOSIUM 10: THE FUNDAMENTAL SEMANTIC FOUNDATIONS OF THE SCIENCES COMPUTATIONAL REWRITE SYSTEMS <u>5th BCSCMsG International Symposium, Symposium Organiser: Peter Marcer</u>
SESSION 10.1. TUESDAY 9, 14:00-18:00, ROOM 138
Chairpersons: Uri Fidelman & Peter Rowlands
A Remarkable Quantum Mechanical Discovery , Peter J. Marcer, Peter Rowlands (France-UK)
Anticipation is Nowhere and its Logic is Nothing , Michael Heather, Nick Rossiter (United Kingdom)
The Significance of “Advanced” and “Retarded” Signals for a Transactional Interpretation of Cortical Synchronisation: Lessons from the Kosyrev Effect for the Absorber Theory of Quantum Brain Dynamics , Uwe Kämpf (Germany)
Conscious Choice (Topological Transitions in Reality States) , Otto Van Nieuwenhuijze (The Netherlands)
De Tracy’s Ideology of Standard Units and the Separation of the Logics of the Mechanical from the Logics of the Nano, Chemical and Biological Sciences , Jerry LR Chandler (USA)
Watergates-logic Operation in Water , Cyril W. Smith (United Kingdom)
SESSION 10.2. THURSDAY 11, 14:00-18:00, ROOM 138
Chairpersons: Jerry LR Chandler & Uwe Kämpf
Fermion Interactions and Mass Generation in the Nilpotent Formalism , Peter Rowlands (United Kingdom)
The Doubling Theory Corrects the Titius-Bode Law and Defines the Fine-Structure Constant in the Solar System , Jean-Pierre Garnier Malet (France)
Multidimensional Time , Uri Fidelman (Israel)
Quantum State Tomography of Nanostructures and the Heisenberg Nilpotent Lie Group Model of Quantum Information Processing , Walter Schempp (Germany)
The Blind Spot of Science (Understanding Life, Live, Consciousness and Health) , Otto Van Nieuwenhuijze (The Netherlands)
Is Dark Matter Quantum Coherent in Astrophysical Scales ? , Matti Juhani Pitkänen (Finland)

Registration Forms at CASYS'05

Potential authors and participants are invited to fill the following pre-registration form to be on the mailing list of CASYS'05, and to submit a tentative title of a paper:

[PRE-REGISTRATION AT CASYS'05 : CLICK HERE](#)

All participants and authors of papers are asked to register to the conference CASYS'05 in filling this form:

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LOCATION OF THE CONFERENCE

The conference will be held at



HEC – Ecole de Gestion de l'Université de Liège,
rue Louvrex, 14, B-4000 Liège, Belgium - <http://www.hec.be/>

Parking HEC-ULg, rue Saint Gilles (ring at the automatic barrier)

At walking distance of downtown.

MAP OF LIEGE : [Click here for the map: MAP](#)

This map shows the location of:

HEC: location of the conference / HOTEL DE VILLE (City Hall): reception / DUC D'ANJOU: Banquet restaurant / HOTELS: Univers, Cygne d'Argent, Mercure, Ibis, Holiday Inn, Eurotel, and Bedford

Liège, in Belgium, is situated along the river Meuse next to Aachen, Germany, and Maastricht, the Netherlands.

TRAVEL TO LIEGE



By Car :

take the highways Maastricht - Liège from The Netherlands, Aachen - Liège from Germany, Luxembourg - Liège from Luxembourg, Paris - Liège from France.

See the map of access in the Web pages :

<http://www.ulg.ac.be/info-gen/acces.html>

<http://www.ulg.ac.be/info-gen/cartes.html>

By Train :

The Liège railway Station is LIEGE-GUILLEMINS

<http://www.b-rail.be>

By Airline :

"Brussels Airport" (Belgium): information on the web page:

<http://www.brusselsairport.be/> (click on english).

From National Bruxelles Airport at Zaventem: take two trains:

Zaventem - Bruxelles Nord (4 by hour, duration 15 minutes)

then Bruxelles Nord - LIEGE-GUILLEMINS (2 by hour, duration 1 hour)

Tourism Information

Office du Tourisme de la Ville de Liège, rue Féronstrée, 92, B-4000 Liège - Belgium

Tel. +32 (0)4 221 92 21 - Fax +32 (0)4 221 92 22 - <mailto:office.tourism@liege.be>

<http://www.liege.be/>

Fédération du Tourisme de la Province de Liège, Boulevard de la Sauvenière, 77, B-4000 Liège - Belgium

Tel. + 32 (0)4 232 65 10 - Fax + 32 (0)4 232 65 11 - <mailto:ftpl@ftpl.be> - <http://www.ftpl.be/>

<http://www.colvert.be/ftpliege/>

HOTELS

List of Hotels :

[MAP of location of HOTELS: Univers, Cygne d'Argent, Mercure, Ibis, Holiday Inn, Eurotel, and Bedford](#)

All rooms with TV, Bath or Shower. The Breakfast and all taxes are included in the prices of the room.

***** Discounts on the prices of rooms are given for CASYS'05 participants *****

HOTEL MERCURE ****	Boulevard de la Sauvenière 100, B-4000 Liège, Belgium
Please use the attached ROOM RESERVATION FORM (doc)	Phone + 32 (0)4 221 77 28 Fax + 32 (0)4 221 77 01
Single room : 85 € (instead of 172 €) Double room : 100 € (instead of 187 €)	Full American Buffet Breakfast included Taxes and services included

Situated in the city centre just next the local attractions, the shopping area and the famous "carré" the swinging centre of Liège. Here you will find

countless bars, pubs, piano bars, discos and terraces. Distance from HEC: 1 km. Access by bus. Parking (free of charge)

HOTEL HOLIDAY INN ****	Esplanade de l'Europe 2, B-4020 Liège, Belgium
Please use the attached ROOM RESERVATION FORM (doc)	Phone + 32 (0)4 349 20 26 Fax + 32 (0)4 343 48 10
Single room : 95 € (instead of 195 €) Double room : 110 € (instead of 210 €)	Full American Buffet Breakfast included Taxes and services included

Situated on the banks of the river Meuse, near the beautiful Parc de la Boverie and its only a few minutes' walk from the city centre. The Holiday Inn Liège Palais des Congrès is the only 4* hotel offering to his guests a heated indoor swimming pool, solarium, sauna, steam bath and an ultra modern fitness club. Distance from HEC: 1 km. Access by bus. Parking (free of charge)

HOTEL BEDFORD **** mailto:saleslg@hotelbedford.be	Quai St-Léonard 36, B-4000 Liège, Belgium
Fax + 32 (0)4 227 45 75	Phone + 32 (0)4 228 81 11,
Single room : 84 € (instead of 210 €)	Double room : 110 € (instead of 236 €)

Situation: along the river Meuse. This is really a modern and luxurious hotel with restaurants in open air and in 17th century buildings. Distance from HEC: 5 km. Access by buses. Private parking.

HOTEL IBIS LIEGE CENTRE OPERA ** mailto:h0864@accor.com	Place de la République Française 41, B-4000 Liège, Belgium
Fax + 32 (0)4 223 04 81	Phone + 32 (0)4 230 33 33
Single room : 68 € (instead of 78 €)	Double room : 77 € (instead of 87 €)

Situation: at the centre of the town. Distance from HEC: 2 km. Access by bus. Public Parking.

HOTEL IBIS LIEGE SERAING ** mailto:ibis.boncelles@belgacom.net	Route du Condroz, 15b, B-4100 Boncelles, Belgium
Fax + 32 (0)4 338 45 11	Phone + 32 (0)4 338 53 97
Single room : 62 € (instead of 69 €)	Double room : 62 € (instead of 88 €)

Situation: close to the ROYAL GOLF CLUB DU SART TILMAN, HORECA site of the MILLENIUM VILLAGE. Distance from HEC: 8 km. Access by bus. Private Parking.

HOTEL LE CYGNE D'ARGENT *** mailto:info@cygnedargent.be http://www.cygnedargent.be/	Rue Beeckman 49, B-4000 Liège, Belgium
Fax + 32 (0)4 222 49 66	Phone + 32 (0)4 223 70 01
Single room : 57 € (instead of 66 €)	Double room : 76 € (instead of 85 €)

Situation: very near the centre of the town. Distance from HEC: 100 meters. Parking in the street.

Best Western UNIVERS HOTEL*** mailto:univershotel@skynet.be http://www.bestwestern.be/Univers/UniversFR.html	Rue des Guillemins 116, B-4000 Liège, Belgium
Fax + 32 (0)4 254 55 00	Phone + 32 (0)4 254 55 55
Single room : 56 € (instead of 69 €)	Double room : 66 € (instead of 81 €)

Situation: next to the railway station and near the centre of the town. Distance from HEC: 1 km. Access by bus. Public Parking.

HOTEL GRIL CAMPANILE *** mailto:liege@campanile.be	Rue Jules de Laminne 18, B-4000 Liège, Belgium
Fax + 32 (0)4 224 03 80	Phone + 32 (0)4 224 02 72
Room for 1/2/3 persons : 72.50 € (Monday to Thursday) 57.50 ;€ (Friday, Saturday, Sunday)	Breakfast : 9.95 €/person

Situation: on a little mountain, very calm. Distance: 3 km. Direct access by bus. Private parking

EUROTEL ** mailto:eurotelliege@yahoo.fr http://www.eurotelhotel.com/	Rue Léon Frédéricq 29, B-4020 Liège, Belgium
Fax + 32 (0)4 343 07 48	Phone + 32 (0)4 341 16 27
Single room : 60 €	Breakfast : 8 €

Situation: near the Palais des Congrès. Distance from HEC: 1 km. Access by bus. Parking (garage)

ETAP HOTEL ** http://www.etaphotel.com/	Rue de l'Arbre Courte Joie 380, B-4000 Liège-Rocourt, Belgium
Fax + 32 (0)4 247 14 04	Phone + 32 (0)4 247 03 13
Room for 1/2/3 persons : 40 €	Breakfast : 5 €/person

Situation: along the highway Liege-Aachen. Distance 8 km. Access by 2 buses. Private parking.

HOTEL PREMIERE CLASSE ** https://www.envergure.fr/pclassefr.html	Rue de l'Arbre Courte Joie 330, B-4000 Liège-Rocourt, Belgium
Fax + 32 (0)4 247 45 43	Phone + 32 (0)4 247 47 51
Room for 1/2/3 persons : 38 €	Breakfast : 4 €/person

Situation: along the highway Liege-Aachen. Distance 8 km. Access by 2 buses. Private parking.

INSTRUCTIONS FOR SUBMISSION OF ABSTRACT AND DRAFT FULL PAPER

Potential authors are invited to submit a paper for presentation at CASYS'05 :

Tentative Title: as soon as possible

Last Deadline for abstract : July 15, 2005

Deadline for draft full paper : August 1, 2005

Deadline for final full paper: December 15, 2005

Authors are invited to send, as a Word or text file, a one-page abstract, and, as a word or PDF file, a draft full paper, by email to Daniel.Dubois@ulg.ac.be or by post mail (in two copies) to

asbl CHAOS, Dr. Ir. Daniel M. DUBOIS,
 Institut de Mathématique, B37, Université de Liège,
 Grande Traverse 12, B-4000 LIEGE 1, Belgium.
 Tel. : + 32 4 366 00 28 Fax: + 32 4 366 94 89

ABSTRACT

The abstract will clearly show:

1. What is the problem to resolve?
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3. In what aspect, the paper enhances the knowledge of anticipatory systems?

[ABSTRACT SUBMISSION ON-LINE FOR CASYS'05: CLICK HERE](#)

Abstract can be sent as an attached Word or text file by email, with the following format:

Title of Abstract (16 points bold, centred)

Authors names

Affiliations, addresses / fax - e-mail - http (12 points)

Keywords (12 points bold): Five keywords (12 points).

Abstract

The abstract will contain 1 page.

Only text is accepted in abstract (no mathematical equation and no figure).

The title should be written with capitalised initials of words with at least 4 letters.

Printing area should be 15 x 21.7 cm. Use sheets with format A4: 21 x 29.7 cm.
 The left and right margins are 3 cm and, upper and bottom margins are 4 cm.

Text of abstract in simple interline, with Times New Roman 12-point font size and justified to occupy the full line width.

An Abstract Book will be published and distributed to the participants of the Conference.

FULL DRAFT PAPER

The full draft papers will be peer-reviewed by at least 2 different referees: each author will receive the comments of the referees after the conference in view of preparing the camera-ready paper following the instructions which will be given.

All the accepted papers will be published in the CASYS'05 Proceedings: either in the AIP Conference Proceedings, published by the American Institute of Physics, either in the International Journal of Computing Anticipatory Systems, IJCAS, published by CHAOS asbl, following the advises of the referees. The proceedings will appear in July 2006.

Awards for the Best Papers: The International Scientific and Program Committees will select the best papers in each topics, following the advices of the referees. The Best Paper Awards Ceremony will happen during the conference.

Instruction for the draft paper:

The paper will clearly show:

1. What is the problem to resolve?
2. What is well-known?
3. What is the novelty in the paper?
4. What results are obtained?
5. What is the anticipatory aspect in the paper?

Review papers and tutorial papers on anticipatory systems are also welcome.

Title of Paper

Authors names

Affiliations, addresses / fax - e-mail - http

Abstract: 10 lines

Keywords: 5 keywords

The draft full paper will contain about 10 pages A4.

Text of paper in simple interline, with Times New Roman 12-point font size.

References

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