

**ICCSA 2014**  
**Fourth International Conference on**  
**Complex Systems and Applications**

**June 23-26, 2014**  
**Le Havre, Normandie, France**

**Program**

<b>Satellite Workshops</b>
<a href="#"><u>SW1 - Complex Systems Digital Campus (CD-DC) UNESCO UniTwin Kickoff</u></a>
<a href="#"><u>SW2 - Modeling and Simulation Platforms</u></a>
<a href="#"><u>SW3 - Complex Networks and Dynamics</u></a>
<a href="#"><u>Visualization</u></a>
<a href="#"><u>SW5 - Combinatorial Physics and Complexity</u></a>
<a href="#"><u>SW6 - Dynamical systems applied to population dynamics in ecology and in epidemiology</u></a>
<a href="#"><u>SW7 - Memristor and Complex Networks: Theory and Applications</u></a>
<a href="#"><u>SW8 - Ecological dynamics in sport</u></a>
<a href="#"><u>SW9 - Dynamics of complex living systems</u></a>
<a href="#"><u>SW10 - Logistics</u></a>
<a href="#"><u>SW11 - Chaos theory and applications</u></a>
<a href="#"><u>SW13 - Slow-fast dynamics: theory and application</u></a>
GS - General sessions of the conference

<b>General Sessions</b>
GS1 - PDE, Control, Observability
GS2 - Fractal Analysis, Social Systems
GS3 - Networks and Complex Systems
GS4 - Multi-agents Systems, Heuristics
GS5 - Bio-systems
GS6 - General Dynamical Systems
GS7 - Game Theory

# ICCSA 2014 Global Program

## Monday June 23, 2014

08:00 - 09:30	Welcome & Registration						
09:30 - 10:15	Opening						
10:15 - 11:45	Keynote: Leon O. Chua						
11:45 - 12:30	Keynote: Jurgen Kurths						
12:30 - 14:00	Lunch						
14:00 - 14:45	Keynote: Celso Grebogi						
14:45 - 15:30	CS-DC Unesco Unitwin kick-off opening						
15:30 - 16:00	Coffee break						
16:00 - 17:30	SW1	SW3	SW4	SW7	SW9	SW2	
17:30 - 19:00	SW1	SW3	SW4	SW6	SW9	SW2	GS6
19:00	Welcome cocktail						

	Room 1
	Room 2
	Room 3
	Room 4
	Room 5
	Room 6
	Room 7

## Tuesday June 24, 2014

09:00 - 09:45	Keynote: James A. Yorke						
09:45 - 10:30	Keynote: Robert S. MacKay						
10:30 - 11:00	Coffee Break						
11:00 - 11:45	Keynote: Jacques Demongeot						
11:45 - 12:30	Keynote: Pierre Frankhauser						
12:30 - 14:00	Lunch						
14:00 - 14:30	SW1	SW3	SW4	SW6	SW9	SW2	GS6
14:30 - 16:30	SW1	SW3	SW4	SW6	SW11	SW2	GS6
16:30 - 17:00	Coffee Break						
17:00 - 19:00	SW1	SW3	SW5	SW13	SW11	SW2	GS5
20:00	Conference Diner						

## Wednesday June 25, 2014

09:00 - 09:45	Keynote: Otto Rossler						
09:45 - 10:30	Keynote: Guy Theraulaz						
10:30 - 11:00	Coffee Break						
11:00 - 13:00	SW1	SW3	SW5	SW6	GS3		GS5
13:00 - 14:30	Lunch						
14:30 - 19:00	Visit to Etretat						

## Thursday June 26, 2014

09:00 - 09:45	Keynote: Guanrong Chen						
09:45 - 10:30	Keynote: Pierre Auger						
10:30 - 11:00	Coffee Break						
11:00 - 11:30	SW1	GS2	SW10	SW13	GS3	SW8	GS5
11:30 - 12:30	SW1	GS2	SW10	SW13	GS4	SW8	GS5
12:30 - 14:00	Lunch						
14:00 - 15:00	SW1	GS2	SW10	SW13	GS4	SW8	GS1
15:00 - 15:30	SW1	GS2	SW10	SW13	GS7	SW8	GS1
15:30 - 16:30	SW1	GS2	SW10		GS7	SW8	
16:30	Conference Ending						

## ICCSA 2014 Detailed Program

Monday June 23, 2014

08:00 - 09:30	Welcome & Registration						
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10:15 - 11:45	Keynote: Leon O. Chua						
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15:30 - 16:00	Coffee break						
	<b>Room 1 - SW1</b>	<b>Room 2 - SW3</b>	<b>Room 3 - SW4</b>	<b>Room 4 - SW7</b>	<b>Room 5 - SW9</b>	<b>Room 6 - SW2</b>	
16:00 - 16:30	<i>J. Johnson, J. Aguilar, Chun-Yen Chang, K. Jaffe, M. Pélessié</i>  Integrative Science of Education	<b>Marton Karsai</b>  Controlling Contagion Process in Activity Driven Networks	<b>Salikoko S. Mufwene</b>  What Makes Language Evolution So Complex and Difficult to Model Accurately	<b>M. Mirchev, I. Mishkovski, L. Kocarev</b>  Memristive Networks of Chua's Circuits	<b>Irene Sendina-Nadal</b>  Longitudinal Network Analysis of Neuronam Cultures	<b>Patrick Taillandier, Nicolas Marilleau</b>  GAMA tutorial	
16:30 - 17:00		<b>Wilbert Rossi</b>  Resilience and Cascading Failure in Large-Scale Networks		<b>A. Ascoli, V. Lanza, F. Corinto, R. Tetzlaff</b>  Analytical Conditions for Synchronization for a simple memristive Neural Network	<b>B. Xu, S. Jacquir, S. Binczak, J.-M. Bilbault</b>  Phase Space Reconstruction of an Experimental Cardiac Electrical Signal		
17:00 - 17:30		<b>Adam lipowski</b>  Emergence of Social Structures via Preferential Selection	<b>M. Bonnin, V. Lanza, F. Corinto</b>  The role of Noise on the Synchronization of Oscillators	<b>Emeline Fresnel</b>  Characterization of Cardiodynamics from First- return Maps on Delta-RR Intervals			
17:30 - 18:00		<b>Luis Rocha</b>  TempoRank: a Random Walk Centrality for Temporal Networks	<b>J.-L. Léonard, V. dell'Aquila, A. Gaillard- Corvaglia</b>  Algorithmic Complexity Applied to Geolinguistic Networks	<b>Damien Queslioz</b>  Preindustrial Non-volatile Memories Used as Memristive Devices: Different Behaviors for Complex Systems	<b>Louise Viger</b>  A Cancer Model for the Angionic Switch		
						<b>Room 7 - GS6</b>	
							<b>Atanu Chatterjee, Gitakrishnan Ramadurai</b>  Scaling Laws in Chennai Bus Network

Monday June 23, 2014

	Room 1 - SW1	Room 2 - SW3	Room 3 - SW4	Room 4 - SW6	Room 5 - SW9	Room 6 - SW2	Room 7 - GS6
18:00 - 18:30	<b>B. Galinon-Méléneç, S. Leleu-Merviel, F. Mori Sarti</b>  Integrative Social Science	<b>Alok Kumar</b>  Navigating Internet with Group and Degree Information	<b>S. Balev, G.H.E. Duchamp, J.-L. Léonard</b>  Visualizing and Revisiting Dialect Intelligibility Networks: Mazatec as a Case Study	<b>Rachid Mchich</b>  Analysis of the Equilibrium Stability of a Moroccan Fishery Management Model	<b>Massimo Di Felice</b>  Controllability and Stability Analysis of a Cancer Chaotic System	<b>Patrick Taillandier, Nicolas Marilleau</b>  GAMA tutorial	<b>Saber Nasraoui</b>  Instability in Magnetogravity Shear Waves
18:30 - 19:00		<b>James Clough</b>  Citations Networks and their Time Constraint	<b>Angels Massip i Bonet</b>  Complexity as a Framework for Understanding Transdisciplinarity	<b>Ali Moussaoui</b>  Global Dynamics of a Predator-Prey System and its Applications to Biological Control	<b>Aurélie Vallée</b>  Characterization of the Dynamics Underlying mediated Interactions of Visually Impaired and Normal Teenagers		<b>I. Tchiguirinskaia, D. Schertzer, A. Giangola-Murzyn, T.C. Hoang</b>  Multiscale Resilience Metrics to Assess Complex System Resilience
19:00	Welcome cocktail						

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09:00 - 09:45	<b>Keynote: James A. Yorke</b>						
09:45 - 10:30	<b>Keynote: Robert S. MacKay</b>						
10:30 - 11:00	<b>Coffee Break</b>						
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12:30 - 14:00	<b>Lunch</b>						
	<b>Room 1 - SW1</b>	<b>Room 2 - SW3</b>	<b>Room 3 - SW4</b>	<b>Room 4 - SW6</b>	<b>Room 5 - SW9</b>	<b>Room 6 - SW2</b>	<b>Room 7 - GS6</b>
14:00 - 14:30	<b>Salima Taïbi, M. Funabashi</b>	<b>Jürgen Kurths</b> How Basin Stability Complements the Linear-Stability Paradigm	<b>Marco Patriarca</b> Models of Language Competition	<b>Jean-Jules Tewa</b> Global Dynamics of a Predator-Prey System and its Applications to Biological Control	<b>Oriol Pont</b> Singularity Analysis: a Method for Properly Characterizing Complexity in Cardiodynamics	<b>Martin Potier</b> MGS Tutorial	<b>Y. Zhao, Y. Zhang, M. Shi, C. Liu</b> Absolute Stability of a Class of Stochastic Switched Systems
14:30 - 15:00	Integrative Ecology	<b>Dimitri Papadimitriou</b> Stochastic Optimal Control in Cooperative Multi-agent Systems		<b>Nadia Raïssi</b> Multi-fishery Management: Differential Games Approach	<b>Room 5 - SW11</b> <b>Bob Gilmore</b> Tale of Two Maps		<b>K. Zhang, X. Liu, W.-C. Xie</b> Global Exponential Stability of Discrete-time Delay Systems Subject to Impulsive Perturbations
15:00 - 15:30	<b>Jörg Lehnert, Hector Zenil, Oscar Cordon</b>	<b>J.-G. Caputo</b> Wave Propagation in Nonlinear Networks	<b>Adam Lipowski</b> Dynamics of Naming Games: Why is it Slow and How to Make it Faster?	<b>Tri Nguyen Huu</b> Modelling Dynamics of Ungulates Populations in Amboseli National Park, Kenya	<b>Martin Rosalie</b> Templates of Two Foliated Attractors: Lorentz and Chen Systems	<b>Y. Pigné, S. Balev, A. Dutot</b>	<b>Radko Kriz, Petr Hainc</b> Chaos in Tropospheric Ozone Concentration Time Series
15:30 - 16:00		<b>Fabien Tarissan</b> Real-world Spreading Phenomena: experiments on a large-scale P2P System	<b>Didier Demolin</b> Evaluating the Complexity of Phonological Systems	<b>Slimane Ben Miled</b> Mathematical Model for Larvae Fish Recruitment: Effects of Temperature Fluctuations	<b>C. Letellier, G.H. Oliveira Salgado &amp; L.A. Aguirre</b> Fractional-order Systems: Does the Derivative Order Differ from a Bifurcation Parameter?		<b>A. Balti, V. Lanza, M.A. Aziz-Alaoui</b> On the Study of Periodic Solutions in the Hodgkin-Huxley Model
16:00 - 16:30	Multi-level Modelling	<b>Vincent Traag</b> Dynamics of Media Attention	<b>Roundtable</b> Space, Topology, Diffusion & Language: Prospects for Future Research	<b>Gustavo Cruz</b> Dynamics of a Cancerous Tumor Growth Under the Effect of Therapy	<b>L. Larger, R. Lavrov, A. Bayon Fuentes, M. Jacquot, Y.C. Chembo, V.S. Udaltsov</b> Dual Delay Electro-Optic Phase Oscillators: a Nonlinear Non-local Dynamics for High Performance Secure Optical Chaos Communications	GraphStream Tutorial	<b>Juan Carlos Pacual</b> Logistic Model for Customer Dynamics in the Mobile Telecommunication
16:30 - 17:00	<b>Coffee Break</b>						

Tuesday June 24, 2014

	Room 1 - SW1	Room 2 - SW3	Room 3 - SW5	Room 4 - SW13	Room 5 - SW11	Room 6 - SW2	Room 7 - GS5	
17:00 - 17:30	S. Ocelli, M. Fontana, C. Rozenblat, S. Ghernaouti	Marya Bazzy  Community Structure in Multilayer Networks	G�rard H.E. Duchamp, Hoang Ngoc minh  An Interface Between Physics and number Theory via an Analytic Version of Cartier-Quillen-Milnor-Moore Theorem	J. Starke  Analysis of Particle Models by Implicit Equation-Free Methods	L. Pastur, C. Pivot, F. Lusseyran, C. Letellier  Time-delayed Feedback Control for Phase Coherent and Phase Noncoherent Chaotic Regimes	Mathieu Leclair, Romain Reuillon	M. Jelassi, S. Ben Miled, N. Bellamine, J. Demongeot  Modeling the Obesity: a Short Review of Literature	
17:30 - 18:00		Territorial Intelligence	Floriana Gargiulo  Driving Forces of Researcher's Mobility	Bui van Chi�n  Algebra on Words with q-Deformed Stuffle Product and Expressing Polyzetaz	A. Kuznetsov  Can a Delay Differential Equation Produce Relaxation Oscillations?		Adrien Kerfourn  Phase Synchronisation in a Ring of R�ssler Systems	Yafia Radouane, M.A. Aziz Alaoui  Qualitative Properties in Two-Patches of Predator-Prey System with Unidirectional Migration of Prey and Effect of Migrated Population
18:00 - 18:30	Roundtable	Nicolas Retiere  Are Power Grids Scale Invariant?	Hoan Quoc Ngo  A Scheme of Noncommutative Combinatorial Number Theory and Physics	I. Kosiuk  Mathematical Analysis of Complex Networks of Protein Interactions	Martin Rosalie & Christophe Letellier  Topologically Inequivalent Attractors Solution for the Chua Circuit		OpenMole Tutorial	A. Walid, Y. Radouane, M.A. Aziz-Alaoui  Qualitative Properties and Turing Bifurcation in a Two Species predator-Prey System with Diffusion on a Circular Domain
18:30 - 19:00	Complex Systems Science and Engineering, the Big Data Deluge and the Internet of Objects	Arnaud Knippel  Oscillations of Networks: the Role of Soft Nodes	Nguy�n Hoang Nghia  A Combinatorial Non-commutative Hopf Algebra of Graphs	N. Popovic  A Geometric Analysis of Fast-slow Models for Stochastic Gene Expression				D. Louati Ma�roufi, S. Ben Miled, N. Bellamine Ben Saoud  Hermadab an Evolutionary Individual Based Model for the Energy Allocation in Hermaphrodite
20:00	Conference Diner							

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11:00 - 11:30	<b>Thierry Saint-Gérard</b>  Territorial Intelligence	<b>Jari Saramäki</b>  Temporal Patterns in Mobile Call Networks	<b>Cyril Banderier</b>  Dirichlet Series, Mellin Transform, Number Theory and Physics	<b>Martin Potier</b>  Managing the Interoperability Between Models of a Complex System - Application to Prey-Predator Multi-Modeling	<b>Pierre Parrend, Pierre Collet</b>  SCRUM is a Complex System		<b>A. Ignatenko, A. Kolodkin, N. Brady, R. Balling, B. Peters</b>  Comparison of ODE-Based Models for Reactive Oxygen Species Regulation System
11:30 - 12:00	<b>P. Parrend, Z. Han, C.S. Tapiero, P. Collet</b>	<b>Peng Ji</b>  Cluster Explosive Synchronization in Complex Networks	<b>Christian Lavault</b>  On Miki-Gessel Bernoulli Identities	<b>Nadia Raïssi</b>  Management of Salt Water in Irrigation	<b>Haifa Rabai, Rodolphe Charrier, Cyrille Bertelle</b>  Detecting a Sub Group of Chaotic Nodes in an Interaction Network		<b>V.L.E. Phan, B. Ambrosio, M.A. Aziz-Alaoui</b>  Mathematical Analysis of a Complex Network of Neuronal Reaction-Diffusion PDE Systems
12:00 - 12:30	<b>Integrative Governance of Complex Systems</b>	<b>Ben Amor</b>  Diffusion on Atomistic, Network Models of Proteins Identifies Allosteric Sites and Allosteric Pathways	<b>Ladji Kane</b>  Combinatoire et Algorithmique des Factorisations Tangentes à l'Identité	<b>Fulgence Mansal</b>  Mathematical Model of a Fishery with Demand/Supply Dynamics	<b>Giovanna Ferraro, Antonio Iovanella</b>  A Network Science Approach to Inter-Organizational Networks: the Case Study of Entreprise Europe Network		<b>M. Bordet, S. Morfu, M. Rosse</b>  Colored Noise Effects on Ghost Stochastic Resonance
12:30 - 13:00		<b>E. Fanchon</b>  Semi-formal Methodology for the Modelling of High-dimensional and Uncertain Dynamical Systems: Application to the Iron Homeostasis Network	<b>Benoît Cagnard</b>  Sarkovski and the Automata	<b>Adel Ferchichi</b>  Fishing Policy for a Global Hermaphrodite Model	<b>Venus Marza, Mehdi Dehghan, Behzad Akbari</b>  Motif-based Topology Formation for Peer-to-Peer Video Streaming Networks		<b>B. de Bono, P. Grenon, M. Helvenstein, N. Kokash, S.-R. Thomas</b>  ApiNATOMY: The Generation of Interactive CircuitBoard Views of Complex Physiology Knowledge
13:00 - 14:30	Lunch						
14:30 - 19:00	Visit to Etretat						



Thursday June 26, 2014

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11:00 - 11:30	<b>K. Mikula, A. Santos, N. Peyri�ras</b>  Integrative Biology	<b>B. Elissalde, F. Lucchini, L. Grassot, Y. Salamand</b>  Urban Events and Emerging Phenomena	<b>B. Oumayma, B.A. Nahla, E.-G. Talbi</b>  Optimization Algorithms for Solving Multi-Objective Vehicle Routing Problems with Fuzzy Demands	<b>F. Veerman</b>  Pulse Patterns in Singularly Perturbed Reaction-Diffusion Systems	<b>Kiyoumars Roushangar, Saied Sadaghian</b>  Estimation of Total Sediment Transport into Madani Dam Reservoir	<b>Ludovic Seifert:</b> Introduction <b>Keith Davids:</b> "Properties of Complex Adaptive Systems Underspin principles of Transfer in Individuak and Team Sports"	<b>S. Morfu, P. Marquie, G. Lassere, M. Bordet</b>  A Comparative Study of Noise Effects in a Fitzhugh-Nagumo Circuit	
11:30 - 12:00		<b>N. Verdi�re, V. Lanza, R. Charrier, D Provitolo, E. Dubos-Paillard, C. Bertelle, M.A. Aziz-Alaoui</b>  Mathematical Modelling of Human Behaviors During Catastrophic Events	<b>H.I. Hendi, A. Ahmad, M. Bouneffa, C. Fonlupt</b>  Logistics Optimization Using Ontologies	<b>E. Kutafina</b>  Complex Periodic Oscillation Patterns in Prototypical Three Time Scale Model	<b>Marco Patriarca, Els Heinsalu</b>  Kinetic-exchange Models: a Short Review	<b>11:40 - Ian Renshaw</b>  Affective Learning Design: Building Emotions into Representation Learning Design	<b>A. Garnier, C. Huneau, A. Vidal, F. Wendling, H. Benali</b>  Identification of Dynamical Behaviors in Epileptic Discharges Using a Neural Mass Model with Double Excitatory Feedbacks	
12:00 - 12:30		<b>J.-F. Breth�, M. Campo, R. Charrier, N. Corson, F. Druaux, C. Harik El Houssein, F. Gu�rin, F. Guinand, H. Rabai, E. Leclercq, D. Lefebvre, D. Olivier, A. Saad, R. Thouvarecq</b>  About the Detection of Panic in Individual and Collective Human Behaviors	<b>S. Rachad, H. Fouraji, B. Bensassi</b>  Modeling a Production System by Parametric Identification Approach	<b>B. Ambrosio</b>  Weakly Coupled Two Slow-Two Fast Systems, Folded Singularities and Mixed Mode Oscillations	<b>M.A. Salman, C. Bertelle, E. Sanlaville</b>  A New Load Balancing Strategy for Distributed Computing Systems	<b>12:05 - Dominique Orth</b>  Representative Learning Design in Climbing	<b>L. Larger, B. Penkovsky, A. Baylon Fuentes, M. Jacquot, Y.K. Chembo, Y. Maistrenko</b>  New Paradigm in Delay Dynamics: Virtual Chimera States and Brain-Inspired Processing	
12:30 - 14:00	Lunch							

Thursday June 26, 2014

	Room 1 - SW1	Room 2 - GS2	Room 3 - SW10	Room 4 - SW13	Room 5 - GS4	Room 6 - SW8	Room 7 - GS1
14:00 - 14:30	<b>Jean-Marc Meunier, Charles Tijus</b>  Integrative Cognitive Science	<b>Daniel Schertzer, Loulia Tchiguirinskaia</b>  Intermittency, Multifractal Vector Fields, Lie Cascade and Stochastic Clifford Algebra	<b>J.-Y. Colin, H. Mathieu, M. Nakechbandi</b>  Computing Dynamic Routes in Maritime Logistic Networks	<b>E. Benoit</b>  Slow Fast Vector Fields of Dimension 2+2	<b>Yann Secq, Philippe Mathieu</b>  Does Your Trading Strategy Beats Mine? An Agent-based Approach to Evaluate Trading Efficiency	<b>John Komar</b>  Dynamics of Movement Stability During Motor Learning	<b>L. Ezzahri, A. Boutoulout, H. Bourray</b>  Boundary Constrained Controllability Problem
14:30 - 15:00		<b>J. Raimbault, A. Banos, R. Doursat</b>  A Hybrid Network/Grid Model of Urban Morphogenesis and Optimization	<b>H. Dkhil, A. Yassine, H. Chabchoub</b>  Multi-objective Optimization for the Integrated Problem of Container Location and Vehicle Scheduling at Automated Container Terminal	<b>S. Fernandez-Garcia</b>  Canards in Planar Piecewise Linear Systems	<b>M.A. Salman, C. Bertelle, E. Sanlaville</b>  Interaction Capturing Model in a Distributed Computing System	<b>14:25 - Rodolphe Charrier</b>  Arm and Leg Oscillation Modelling in Swimming	<b>I. El Harrakii, A. Boutoulout, H. Bourray</b>  Boundary Flux Controllability Problem: Approach and Simulation
15:00 - 15:30	<b>Maria Eunice Gonzales</b>  Integrative Social Science	<b>J.F. González Suitt, R. Doursat, A. Banos</b>  Service Régularity Loss in High-Frequency Feeder Bus Lines: Causes and Self-Driven Remedies	<b>H. Fourajji, S. Rachad, B. Bensassi</b>  Identification of a Production System Using Hammerstein-Wiener and Narx Models	<b>J.M. Ginoux</b>  Canards Existence in $R^{2+2}$	<b>Room 4 - GS7</b>  <b>Mustapha Arfi, Carla Selmi</b>  Mixed Strategies and w-Rational Languages Probability Computation	<b>14:50 - Jérémie Boulanger, Ludovic Seifert</b>  Automatic Detection of Climbing Affordances	<b>A. Khazari, A. Boutoulout, H. Bourray, I. El Harraki</b>  Regional Gradient Observability: Sectorial Approach
15:30 - 16:00	<b>Roundtable</b>  How to Organise the Research and Education in Complex Systems Science and Engineering?	<b>Patrick Taillandier</b>  GAMAGraM: Graphical modeling with the GAMA platform	<b>K. Danach, W. Khalil, F. Chagas, L. Junior, S. Gelareh</b>  Routing Parallel Heterogeneous Machines in Maintenance Planning: A Hyper-Heuristic Approach		<b>Yichao Zhang, M.A. Aziz-Alaoui, Cyrille Bertelle</b>  Local Nash Equilibrium	<b>15:15 - Régis Thouvarecq</b> Stochasticity and Determinism of Postural Coordination During Standing Task	
16:00 - 16:30			<b>Ilham Slimani, Said Achchab</b> Game Theory to Study the Behavior Probabilities in the Supply Chain		<b>15:40 - Carla Caballero Sanchez</b> Analysing Motor Control Factors of Balance Revealed by Principal Component Analysis	<b>16:05 - Nicolas Benguigui</b> Dynamics for Controlling Actions in Fast Ball Sports	
16:30	<b>Conference Ending</b>						



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