International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 2, 2008

CONFERENCE ROOM MERIDA				
Session	**Session Chair**	**Time**	**Speaker**	**Topic**
Opening session	**Friedrich Recknagel**	**9:00 am**	**Michel Dreyfus**	**ISEI6**
Keynote speaker		**9:20 am**	**Giles Foody**	**Ecological Applications of GIS and Remote Sensing**
Ecological applications of GIS and remote sensing	**Giles Foody**	**10.20 am**	**Moretzsohn**	**Predicting habitats of marine organisms using GIS and ecological data (1)**
		10.40 am	**Barroeta-Hlusicka**	**Geographical information system of the sea turtles in Venezuela (2)**
	11.00 – 11.20 am: Coffee Break			
		11.20 am	**Kim**	**Applications of landscape analyses and ecosystem modeling to investigate land-water nutrient coupling processes in the Guadalupe Estuary, Texas (3)**
		11.40 am	**Buitrago**	**The value of ecosystems services in a national park; a GIS approach to their spatial distribution (4)**
		12.00 pm	**Giannini**	**Geographical distribution modeling of plants and pollinator: a case study (5)**
		12.20 pm	**Nour**	**Neural Networks Modelling of Nutrients in Ungauged Watersheds: Investigating the Potential of Remote Sensing Information as Indicators of Hydrologic Similarity (6)**
		12.40 pm	**Gertner**	**Uncertainties in projected forested landscapes and their uncertainty sources (7)**
LUNCH TIME				

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CONFERENCE ROOM MERIDA

Session	Session Chair	Time	Speaker	Topic
Applications of ecoinformatics	Michele Scardi	2:30 pm	Stevenson	Data quality from "student" citizen scientists collecting plant biodiversity data in urban and suburban settings (8)
		2:50 pm	Weber	Modelling the effects of pesticides on relevant plankton communities (9)
		3:10 pm	Ramos	Classification of Leaves Epidermis Microphotographies Using Texture Features (10)
	3:30 – 3:50 pm: Coffee Break			
		3:50 pm	Hua	Estimating self-organization of plant communities- A thermodynamic approach (11)
		4:10 pm	Araujo	Studies of Flexible Wireless Sensor Networks Architectures to Support Decision-Making in Ecological Experiments (12)
		4:30 pm	Soares-Santana	Implementation of a management process in a SOA-based ecological niche modelling software package (13)
		4:50 pm	Cabrera	Habitat fragmentation by deforestation in the Andes of Colombia (14)
		5:10 pm	Salsky	Fuzzy knowledge and data-based models of damage to reeds by grazing of graylag geese (15)
POSTER SESSION				
			Park	Patterning zooplankton community pattern in an agricultural reservoir using computational methods (16)
			Qu	Species Abundance Patterns in Benthic Macroinvertebrate Communities for Environmental Monitoring and Assessment (17)

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 3, 2008

CONFERENCE ROOM MERIDA

Session	Session Chair	Time	Speaker	Topic
Ecoinformatics solutions for long term ecological research (LTER)	Bill Michener	9:00 am	Laney	EcoTrends: Addressing challenges in cross-site synthesis of long-term ecological data (18)
		9.20 am	Blankman	Strategies for Resolving Natural Language Differences in ILTER Data and Metadata (19)
		9.40 am	Galeano	Dynamic model of dissolved inorganic phosphorous (DIP) for an esturine system: Cienaga Grande de Santa Marta, Caribeean-Colombia (20)
		10.00 am	Aguiler	A flexible online metadata editing and management system (21)
10:20 – 10:40 am: Coffee Break				
		10.40 am	San Gil	Ecological Metadata Language Implementation and Applications: Lessons from the Long Term Ecological Research Network Experience (22)
		11.00 am	Drury	Using Scientific Workflows in Kepler for Conservation Science (23)
		11.20 am	Gonzales	An interactive cartography and ecoinformatics tool to facilitate the exchange and visualization of Canada-wide forestry data (24)
LUNCH TIME				

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 3, 2008

CONFERENCE ROOM MERIDA

Session	Session Chair	Time	Speaker	Topic
Spatio-temporal ecosystem simulation by cellular automata	Qiuwen Chen	1 :30 pm	Hong Li	Aquatic plant dynamics modeling using photography based celluar automata (25)
		1.50 pm	Fernandez-Parada	Evolutonary computation for population dynamics of Paramecium caudatum in experimental conditions by means of cellular automatons (26)
		2.10 pm	Chen	Study on the Riparian Vegetation Evolution due to Reservoir Operations by an Integrated Water Quality and Unstructured Cellular Automata Model (27)
		2:30 pm	Hong Li	Multi-Agent Systems and Cellular Automata for modelling aquatic population dynamics in Lake Veluwe, the Netherlands (28)
		2:50 pm	Goethals	Application of cellular automata to support river restoration planning (29)
3:10 – 3.30 pm: Coffee Break				

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 3, 2008

CONFERENCE ROOM QUERETARO

Session	Session Chair	Time	Speaker	Topic
Agent and individual-based modelling	Lael Parott	9:00 am	Chen	Individual based modeling and the application to simulating fish population dynamics in regulated rivers (30)
		9:20 am	Miranda	Elaboration of causal maps of forest recovery from individual-based models (31)
		9:40 am	Chion	Pattern-oriented modeling strategy to elaborate a spatially-explicit agent-based model dynamically guided by human decision-making (32)
		10:00 am	Parrott	Agent-based modelling of marine mammals and boat traffic in the Saint Lawrence Estuary, Canada (33)
10:20 – 10:40 am: Coffee Break				
		10:40 am	Araujo	A High Performance Computational Environment for Hosting openModeller Framework (34)
		11:00 am	Santana	A comparative study applying GARP and their parallel versions for ecological niche modeling (35)
		11:20 am	Nuño	Evolutive daisyworld models: looking for a homeostatic genetic algorithm (36)
		11:40 am	Zhanshan	Survivability Analysis of Biological Species under Global Climate Changes: A New Distributed and Agent-based Simulation Architecture with Survival Analysis and Evolutionary Game Theory (37)
LUNCH TIME				

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 3, 2008

CONFERENCE ROOM QUERETARO

Session	Session Chair	Time	Speaker	Topic
Meta-data and ontologies in ecological data management	**Matt Jones**	**1.30pm**	**Hernandez**	**Ecology peer to peer. Sharing data (and metadata) among ecologists (38)**
		1:50 pm	**Calder**	**Machine reasoning about anomalous sensor data (39)**
		2:10 pm	**Bowers**	**Owlifier: An Approach for Creating OWL-DL Ontologies from Simple Spreadsheet-Based Knowledge Descriptions (40)**
		2:30 pm	**Huettmann**	**Metadata and the digital teaching legacy of the International Polar Year (IPY): A template for achieving the sustainable global village (41)**
		2:50 pm	**Marshall**	**Community-Based Water Monitoring: A Eco-Informatics Hub Utilizing A Service Oriented Architecture (42)**
3:10 – 3:30 pm: Coffee Break				
		3:30 pm	**Santana**	**The implementation of an OWL-based ontology for relating Peponapis and Cucurbita genera (43)**

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 3, 2008

CONFERENCE ROOM QUERETARO

Session	Session Chair	Time	Speaker	Topic
Knowledge discovery and predictive modelling by neural and evolutionary computation	Tae-Soo Chon	4.00 pm	Russo	Exploring body shape development and its relationships with other ecological features by means Self Organizing Maps (44)
		4.20 pm	Worner	Uncertainty analysis and ensemble selection of statistical and machine learning models that predict species distribution (45)
		4.40 pm	Chon	Comparative Analysis of Multi-Taxa Communities in Streams in Integrative Ecological Assessment (46)
		5:00 pm	Song	Community Organization and Species Abundance Patterns in Benthic Macroinvertebrate Communities in Taxonomic and Functional Groups (47)

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 4, 2008

CONFERENCE ROOM MERIDA

Session	Session Chair	Time	Speaker	Topic
Knowledge discovery and predictive modelling by neural and evolutionary computation	Tae-Soo Chon	9.00 am	Zhanshan	Why Should Populations be Dynamic in Evolutionary Computation? Eco-Inspirations from Natural Population Dynamics and Evolutionary Game Theory (48)
		9:20 am	Cho	Identifying Important Variables (49)
		9:40 am	Park	Metrics Analysis of Benthic Macroinvertebrate Communities Using Computational Methods (50)
		10:00 am	Perillon	Short-term forecasting of *Ceratium hirundella* in three South African lakes by rule-based agents assembled by split-sample and bootstrap training of the Hybrid Evolutionary Algorithm HEA (51)
		10:20 am	Montagna	An Environmental Information System for Hypoxia in Corpus Christi Bay: A WATERS Network Testbed (52)
10:40 – 11:00 am: Coffee Break				

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 4, 2008

CONFERENCE ROOM MERIDA

Session	Session Chair	Time	Speaker	Topic
Combining data-driven and knowledge-based modelling	Peter Goethals	11:00 am	Bredeweg	Qualitative simulations as instruments for learning: An evaluation study (53)
		11.20 am	Jenssen	Using Kullback information of species composition for classification, monitoring, and modelling of forest vegetation with changing environments (54)
		11:40 am	Scardi	An expert system for evaluating potential quality of Italian coastal waters (55)
		12.00 am	Thurau	A model of ecological land types in the Shawnee National Forest, Illinois, USA: validation and assessment (56)
		12.20 am	Salles	A library of model fragments on sustainability (57)
Applications of ecoinformatics		12.40 am	He	Testing Correlations between Species Compositions and MODIS NDVI Variations among Global Terrestrial Ecoregions (58)

LUNCH TIME

International Conference on Ecological Informatics ISEI6. Cancun, Mexico, December 4, 2008

CONFERENCE ROOM MERIDA

Session	Session Chair	Time	Speaker	Topic
Combining data-driven and knowledge-based modelling	Peter Goethals	2:30 pm	Liem	Supporting conceptual knowledge capture through automatic modeling (59)
		2:50 pm	Lock	Application of support vector machines to model the effects of pollution on macroinvertebrates in rivers in Vietnam (60)
		3:10 pm	Boets	Combining datadriven methods and lab studies to analyze the ecology of Dikerogammarus villosus (61)
		3:30 pm	Diaz	A qualitative reasoning model on sexual behaviour:mate guard and extra-pair copulation in birds (62)
		3.50 pm	Bayih	Comparison of Modelling techniques to predict macroinvertebrates community composition in rivers of Ethiopia (63)

CLOSURE