CIPI-ISFUROS 2017 Joint Program

ISFUROS 2017 is being organized as part of the UCLV Convention (http://www.convencionuclv.com/) and will run together with the International Conference on Information Processing (**CIPI**, acronym in Spanish). ISFUROS 2017 delegates have access to all ISFUROS/CIPI sessions as well as any other event under the UCLV Convention umbrella. For a list of these events, visit this link. UCLV is the acronym for **Universidad Central de Las Villas**, the academic institution organizing this Convention.

Venue

On Monday, October 23th the inaugural session of the UCLV Convention will be held at the UCLV Campus, in the outskirts of Santa Clara city. Transportation will be arranged for the guests already staying at **Melia Marina Varadero hotel** who would like to participate in the Convention program for Monday October 23th.

The rest of the UCLV Convention activities will take place at the **Melia Marina Varadero** (Five Star, All Inclusive) located in Varadero from Tuesday October 24th to Friday October 27th, 2017.

Preliminary Program

Note: the session language is indicated (S-Spanish, E-English, ES- English and Spanish)

Monday, October 23rd, 2017		
9:00 am – 12:00 pm (UCLV Campus, Center for Informatics Research, CII Building)	Registration and networking at UCLV Campus 9 am Bus transfer from Melia Marina Varadero to UCLV Campus	
11:00 am – 12:00 pm (UCLV Campus, "XXXV Anniversary" Room)	Award Ceremony	Professor Bernard De Baets (Ghent Universiteit, Belgium) will be awarded the Invited Professor honorary distinction by the Universidad Central de Las Villas (UCLV)
12:30 – 1:10 pm (UCLV Auditorium)	UCLV Convention Inaugural Session (S)	
1:15 – 3:00 pm (La Granjita)	Countryside lunch with typical Cuban food ("La Granjita" Hotel)	
3:15 – 4:30 pm (Sightseeing)	Visit to the "Ernesto Che Guevara" Mausoleum (Santa Clara City) (ES)	
4:45 pm – 7:00 pm	Bus transfer to Melia Marina Varadero (Varadero)	
7:00 pm – 8:00 pm (Hotel Lobby)	Hotel Check in	
8:00 – 10:00 pm (Hotel Restaurants)	Dinner at the hotel	
9:00 pm – 11:00 pm	Recreational activity (Paseo de La Marina)	

Tuesday, October 24th, 2017 Venue: Melia Marina Varadero Hotel		
9:00 – 10:00 am	Keynote Talk #1	Room 1: Monometrics: a new tool for data aggregation Bernard de Baets, Ghent University, Belgium (E)
10:00 – 11:00 am	Technical Sessions	Room 1: ISFUROS 1 (E) Room 2: CIPI 1 (S)
11:00 am – 12:00 pm	Technical Sessions	Room 1: ISFUROS 2 (E) Room 2: CIPI 2 (S)
12:00 pm – 1:00 pm	Technical Sessions	Room 1: ISFUROS 3 (E) Room 2: CIPI 3 (S)
1:00 – 2:30 pm (Hotel Restaurants)	Lunch break	
2:30 – 5:30 pm	Tutorial #1	Room 1: Embedded AI technology and Dynamics Learning Tree (E) Dr. Chyon Hae Kim Department of Electrical Engineering and Computer Science, Iwate University, Japan
8:00 – 10:00 pm (Hotel Restaurants)	Dinner at the hotel	
9:00 – 11:00 pm	Recreational program	

Wednesday, October 25th, 2017 Venue: Melia Marina Varadero Hotel		
9:00 – 10:00 am	Keynote Talk #2	Room 1: Granular Computing models in Machine Learning (E) Dr. Rafael Falcon Larus Technologies and University of Ottawa, Canada
10:00 – 11:00 am	Technical Sessions	Room 1: ISFUROS 4 (E) Room 2: CIPI 4 (S)
11:00 am – 12:00 pm	Technical Sessions	Room 1: ISFUROS 5 (E) Room 2: CIPI 5 (S) – Information Sciences Workshop I (S) Topic: Record Management; Chair: Dr. Airelys Campos
12:00 pm – 1:00 pm	Technical Sessions	Room 1: ISFUROS 6 (E) Room 2: iModa Network Meeting (S); Chairs: Prof. Rafael Bello, Juan Carlos Figueroa, Edmundo Vergara
1:00 – 2:30 pm (Hotel Restaurants)	Lunch break	
2:30 – 5:30 pm	Tutorial #2	Room 1: Fuzzy Cognitive Maps: Methods and Tools (E) Prof. Dr. Koen Vanhoof Hasselt Universiteit, Belgium
8:00 – 10:00 pm (Hotel Restaurants)	Dinner at the hotel	
9:00 – 11:00 pm	Recreational program	

Thursday, October 26th, 2017 Venue: Melia Marina Varadero Hotel		
9:00 – 10:00 am	Keynote Talk #3	Room 1: Smart Systems Opportunities and Challenges in an IoT Age (E) Ann Nowe, Vrije Universiteit Brussels (VUB), Belgium
9:00 – 10:00 am	Technical Session	Room 2: CIPI 6 (S) Information Sciences Workshop II (ES) Topic: Media and Information Literacy; Chair: Dr. Grizly Meneses
10:00 – 11:30 am	Technical Sessions	Room 1: Applications of Decision and Optimisation Models I (Chair: Professor Rafael Bello) (S) Room 2: Information Science Workshop III (ES) Topic: Information Systems; Chair: Dr. Carlos Garcia
11:30 am – 1:00 pm	Technical Sessions	Room 1: Applications of Decision and Optimisation Models II (Chair: Juan Carlos Figueroa) (S) Room 2: Information Science Workshop IV-V-VI (ES) Topic: Scientific Evaluation; Chair: Dr. Maria Josefa Peralta Topic: Semantic Web; Chair: Dr. Amed Leiva Mederos
1:00 – 2:30 pm (Hotel Restaurants)	Lunch break	
2:30 – 3:30 pm	Discussion Panel	Panel: "Emerging Research Trends in Soft Computing and Artificial Intelligence" Koen Vanhoof, Bernard De Baets, Ann Nowe, Chyon Hae Kim
3:30 – 4:30 pm	Technical Sessions	Room 1: Applications of Decision and Optimisation Models III (Chair: Rafael Bello) (S)
8:00 – 10:00 pm (Hotel Restaurants)	Dinner at the hotel	
9:00 – 11:00 pm	Recreational program	

Friday, October 27th, 2017 Venue: Melia Marina Varadero Hotel	
9:00 – 11:00 am (Plenary Room)	Doctoral Workshop (ES): PhD students will present an abridged version of their thesis topic in order to get feedback/insights from the experts attending the event
10:00 am – 11:15 am (Plenary Room)	UCLV Convention Closing Session
11:15 am – 1:15 pm (Hotel Lobby)	Hotel checkout
1:15 – 3:00 pm (Hotel Restaurants)	Lunch break
3:00 – 4:00 pm (Hotel Lobby)	Bus transfers to Varadero / Havana / Santa Clara

List of ISFUROS Sessions	
ISFUROS 1 Fuzzy and Rough Set Theory	Zbigniew Suraj and Piotr Grochowalski. **Fuzzy Petri Nets Over Interval Triangular Norms**
	Mauricio Restrepo and John Fabio Aguilar. **About Matroidal Structures for Covering based Rough Sets**
	Bo Chen **Towards Roughness on NoSQL: Granular Rough Theory Revisited**
ISFUROS 2 Fuzzy Set Applications	Juan A. Aledo, José A. Gámez and Alejandro Rosete. **A Fuzzy Characterization and Analysis of the Bucket Order Problem**
	Alexander Teske, Rafael Falcon, Rami Abielmona and Emil Petriu. **Automating Maritime Risk Assessment with Genetic Fuzzy Systems**
	Mario Koeppen and Aoi Honda. **How to Cope with a Reviewer's Confidence? A Case Study on Fuzzy Aspects of Conference Paper Decisions**
ISFUROS 3 Fuzzy Cognitive Maps and Reinforcement Learning	Mabel Frias, Yaima Filiberto, Gonzalo Nápoles, Koen Vanhoof and Rafael Bello. **Fuzzy Cognitive Maps Reasoning With Words: An Ordinal Approach**
	Beatriz M. Méndez-Hernández, Yailen Martínez Jiménez, Erick D. Rodríguez Bazan and Ann Nowé **FCIPS: A New Method To Handle Uncertainty In Job Shop Scheduling Problems**
	Yaima Filiberto, Rafael Bello and Ann Nowe. **A New Approach Based On Ranking Aggregation Using A Reinforcement Learning For Personnel Selection**
	Jin Lian and Rongzhen Zhao **A Method of Fault Feature Extraction for Rolling-element Bearing Based on NRS and FCM**
ISFUROS 4 Fuzzy Intelligent Systems	Eduyn López-Santana, German Mendez Giraldo and Juan Carlos Figueroa García. **An ANFIS-based approach to Scheduling in Queueing Systems**
	Remberto Martinez, Marcos Tong and Luis Diago. **Fuzzy Adherence Formula for the Evaluation of Just-In-Time Adaptive Interventions in the Health-e-living System**
	Luciano Sanchez and Ines Couso. **A Simple Fuzzy Model for Aeroengine Health Assessment.**
ISFUROS 5	Marilyn Bello, Gonzalo Nápoles, Ivett Fuentes, Isel Grau, Rafael Falcon, Rafael Bello and Koen Vanhoof. **A Fuzzy Activation Mechanism for Rough Cognitive Ensembles**

Rough Set Methods	Yaima Filiberto, Rafael Bello, Wilfredo Martínez, Dianne Arias, Ileana Cadenas and Mabel Frias. **Prediction by Nearest Neighbor a New Approach based on Fuzzy Similarity Quality Measure. A Case Study.**
	Daryl H. Hepting, Hadeel Hatim Bin Amer and Yiyu Yao **A Framework for Three-Way Analysis of Similarity Judgments**
ISFUROS 6 **Rough Set Applications in Knowledge Discovery**	Frank Beer and Ulrich Bühler. **Learning Adaptive Decision Rules Inside Relational Databases**
	Yanela Rodríguez, Rafael Bello, Yailé Caballero, Yaima Filiberto, Yumilka Fernández and Mabel Frias. **An Approach for Class Imbalanced Data Classification based on Rough Set and Nearest Prototype**
	Isel Grau, Gonzalo Nápoles, Dipankar Sengupta, María Matilde García and Ann Nowe. **Training Set Edition using Rough Set Theory for Semi-Supervised Classification**
	Enislay Ramentol, Julio Madera, Abdel Rodríguez and Rafael Bello. **The Diagnosis of Undergraduate Drop Out In Informatics Engineering using a New Model based on Probabilistic Rough Set Theory.**

List of Special Sessions	
Applications of Decision and Optimization Models I	Marilyn Bello, Lázaro Lugo, María M. García-Lorenzo, Ann Nowé and Rafael Bello. **A Method for the Team Selection based on Ant System.**
	Juan Carlos Figueroa García, Eduyn López-Santana and German Hernandez. **A Fuzzy Simulation Approach for Uncertain Production Planning**
	Elio Higinio Cables Pérez, María Teresa Lamata and José Luís Verdegay Galdeano. **L-RIM: Ideal Reference Method with Linguistic Labels.**
Applications of Decision and Optimization Models II	Yamilis Fernández Pérez, Carlos Cruz Corona, Ailyn Febles Estrada and José Luis Verdegay. **Fuzzy Cognitive Map for Modeling the Interrelationship Between Software Quality Criteria**
	Darian Horacio Grass Boada, Airel Pérez Suárez, Rafael Bello and Alejandro Rosete. **Combining Global and Local Approaches for Overlapping Community Detection**
	Airam Expósito, Simona Mancini, Julio Brito and José Andrés Moreno Pérez. **A Fuzzy Tourist Trip Design Problem with Clustered Point of Interest**
	Ricardo Coelho. **Parametric Approach to Solve the Dispatch Power Generation in Fuzzy Environment**
Applications of Decision and Optimization Models III	Edith Malca Arroyo, Flabio Gutiérrez Segura and Edmundo Vergara Moreno. **Fuzzy Model Optimization For Berth Allocation Problem With Two Quays And Delays In Arrivals.**
	Adrián Rodríguez Ramos, Antonio José Silva Neto and Orestes Llanes-Santiago. **A New Fuzzy Clustering Algorithm based on Data Density and the Entropy of Attribute Weights**
	Yamisleydi Salgueiro Sicilia and Rafael Bello. **Ferrous-Alloys Addition in Stainless Steel with MOVMO**