

NIT 2010 Program

Tuesday, September 28

9:00 – 10:00	Registration
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First Session: Natural Information Technologies

Moderator: Luis Fernando de Mingo

10:00 – 10:30	Opening Session Welcome Messages
10:30 – 11:15	Invited Conference: “Networks of Bio-Inspired Processors” Victor Mitrana
11:15 – 11:45	Coffee Break
11:45 – 12:15	“Improving active rules performance in new P system communication Architectures” <u>Juan Alberto de Frutos</u> , Luis Fernández, Carmen Luengo, Alberto Arteta
12:15 – 12:45	“Implementing Transition P Systems” <u>Santiago Alonso</u> , Luis Fernández, Víctor Martínez
12:45 – 13:15	“Membrane Computing: Non deterministic technique to calculate extinguished multisets of objects.” <u>Alberto Arteta</u> , Angel Castellanos, Ana Martínez
13:15 – 15:15	Lunch Reception

Second Session: Synthetical Biology

Moderator: Juan Castellanos

15:15 – 16:00	“Emergence in Bacterial Populations” Angel Goñi Moreno
16:00 – 16:45	“Unconventional Computing ” Paula Cordero Moreno
16:45 – 17:00	Working discussion

Thursday, September 30

First Session: Information Technologies

Moderator: Vladimir Ryazanov

10:00 – 10:40	Invited Conference “Multilingualism vs Globalization” Jesús Cardeñosa
10:40 – 11:10	Coffee Break
11:10– 11:40	“On Structural Recognition with Logic and Discrete Analysis” <u>Levon Aslanyan</u> , Hasmik Sahakyan
11:40 – 12:10	“Representing tree structures by natural numbers” <u>Carmen Luengo</u> , Luis Fernández, Fernando Arroyo
12:10 – 12:40	“Linear program form for ray different discrete tomography” <u>Hasmik Sahakyan</u> , Levon Aslanyan
12:40 – 13:10	“Mathematical model of the cloud for RAY tracing Andrii Ostroushko, <u>Nataliya Bilous</u> , Andrii Bugriy, Yaroslav Chagovets
13:10 – 15:00	Lunch

Second Session

Moderator: Levon Aslanyan

15:00 – 15:40	“The Algorithm based on metric Regularities” <u>Dedovets M.S.</u> , Senko O. V.
15:40 – 16:10	“Adaptive Coding scheme for rapidly changing Communication Channels” <u>Gurgen Khachatryan</u>
16:10 – 16:40	“A mamdani-type Fuzzy inference system to Automatically assess Dijkstra’s algorithm simulation” <u>M. G. Sánchez-Torrubia</u> , C. Torres-Blanc

Friday, October 1

Session: Biomolecular Computing

Moderator: Pedro C. Marijuán

10:00 – 10:40	Invited Conference “Natural and Artificial Intelligence” Krassimir Markov
10:40 – 11:10	Coffee Break
11:10– 11:40	“Pigmented Rat-Based Vision for Artificial Intelligence Applications” <u>Francisco J. Cisneros de los Ríos</u> , Isabel Martín Moreno-Cid, Abel Sanchez-Jiménez, Juan Castellanos and Fivos Panetsos
11:40 – 12:10	“Varieties of Biological Information: A Molecular Recognition Approach to Systems Biology and Bioinformatics” <u>Jorge Navarro</u> , Ángel Goñi-Moreno and Pedro C. Marijuán
12:10 – 12:40	“Self-Assembly Process for Integrated Circuits based on Carbon Nanotubes using Microfluidic Devices” <u>David Moreno</u> , Sandra Gómez, Paula Cordero
12:40 – 13:10	“ A Survey of Nonparametric Tests for the Statistical Analysis of Evolutionary Computation Experiments “ <u>Rafael Lahoz-Beltran</u> , Carlos Perales-Gravan
13:20 – 13:40	Closing Session
13:40– 15:00	Lunch

Excursion

15:00 – 22:00	Excursion to Alcalá de Henares
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