EVIC2013 | 25 - 26 NOVIEMBRE
TEMUCO - CHILE

IX Latin American Summer School on Computational Intelligence.
Temuco, Chile.
November 25 and 26, 2013.

Chair: Millaray Curilem, Universidad de la Frontera.
Co-chair: Doris Sáez, Universidad de Chile.
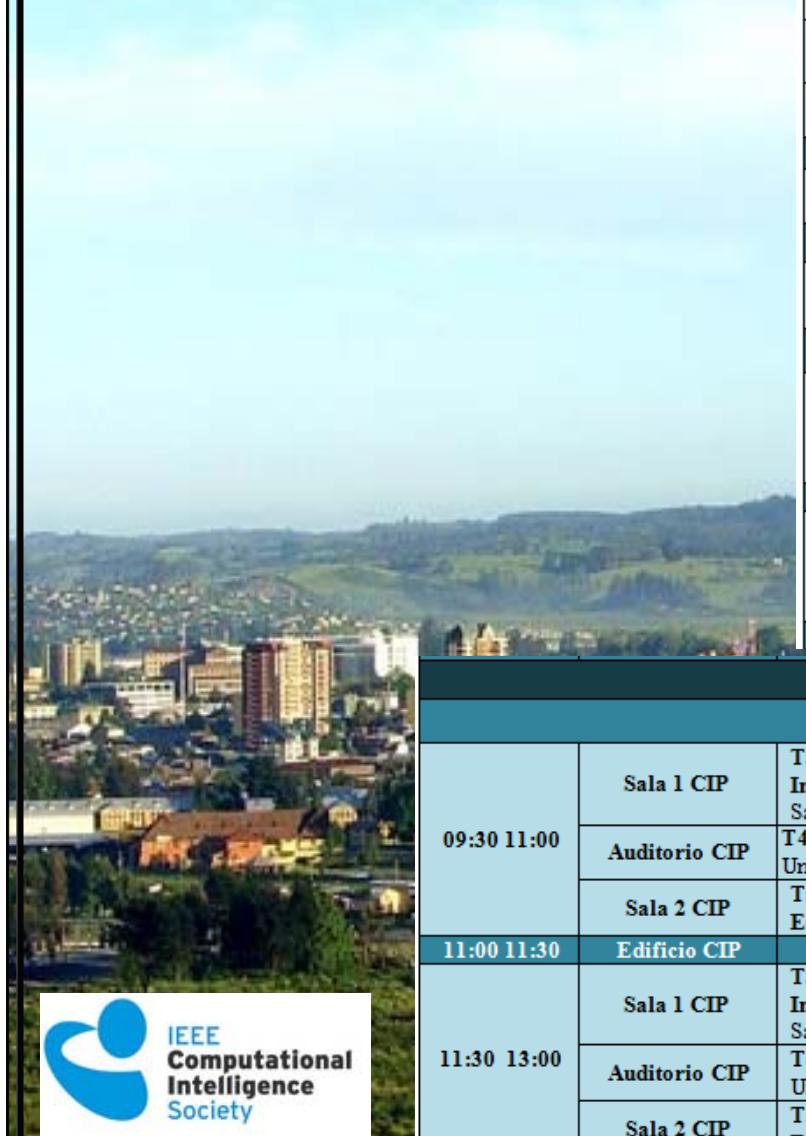
The Chilean Chapter of the IEEE Computational Intelligence Society organized the IXth Latin American Summer School EVIC2013. Summer Schools on Computational Intelligence have been organized at the Universidad de Chile since 2003 and have been an exchange opportunity for undergraduate and graduate students from electrical engineering, computer science, mathematics, and related areas. This year, EVIC 2013 took place in Temuco, at the Universidad de La Frontera (700 kms south of Santiago). EVIC2013 continued the tradition and offered an attractive program for its target audience.

Computational Intelligence meets a set of biologically inspired techniques addressed to complex engineering problems. The great advantage of these techniques is their flexibility to adapt to a wide variety of problems. For this reason it is important that our students know their progress and applications in order to encourage their study. The aim of the EVIC2013 Summer School was then to promote Computational Intelligence and to disseminate the latest results of research and development of this interesting area, especially among graduate students and academics from Chile and other Latin American countries.

Ingeniería Eléctrica
FACULTAD DE CIENCIAS FÍSICAS Y MATEMÁTICAS
UNIVERSIDAD DE CHILE

Program

Monday November, 25		
8:30 - 9:00	Audit. S. Saavedra	**Registration**
9:00 – 9:30		**Inauguration**
09:30 -10:30	PLENARIES Audit. S. Saavedra	P1: Evolutionary Global Optimisation and Constraint Handling Prof. Xin Yao, Universidad de Birmingham, Inglaterra.
10:40 -11:45		P2: Evolving Granular Computation. Prof. Fernando Gomide, Universidade Estadual de Campinas, Brasil.
11:45 - 12:15		Coffee Break
12:15 -13:15		P3: Digital Image Analysis: Applications in Biometrics and Mining. Prof. Claudio Perez, Universidad de Chile.
Lunch		
14:30 - 16:30	Audit. S. Saavedra	**Poster Competition**
Tutorials		
16:30 17:45	Audit. S. Saavedra	T1: An Introduction to Prognosis, Uncertainty Representation, and Risk Measures. Prof. Marcos Orchard, Dpto. Ing. Eléctrica. Universidad de Chile.
	Sala 7 CIP	T2: El Potencial de la Inteligencia Computacional para la Minería de Datos. Prof. Richard Weber, Dpto. Ingeniería Industrial. Universidad de Chile.
17:45 18:15	Audit. S. Saavedra	Coffee Break
18:15 19:30	Audit. S. Saavedra	T1: An Introduction to Prognosis, Uncertainty Representation, and Risk Measures. Prof. Marcos Orchard, Dpto. Ing. Eléctrica. Universidad de Chile.
	Sala 7 CIP	T2: The potential of Computational Intelligence for Data Mining. Prof. Richard Weber, Dpto. Ingeniería Industrial. Universidad de Chile.
19:45 20:30	Audit. S. Saavedra	Cocktel

Tuesday November 26		
Tutorials		
09:30 11:00	Sala 1 CIP	T3: Modeling Non-Linear Dynamic Systems using Computational Intelligence. Prof. Gonzalo Acuña, Dpto. Ing. Informática. Universidad de Santiago de Chile.
	Auditorio CIP	T4: Dynamics of Neural Networks. Prof. Daniel Sbarbaro, Depto. Ing. Eléctrica Universidad de Concepción. Chile.
	Sala 2 CIP	T5: Control Predictivo Basado en Multi-Agentes para Sistemas de Gran Escala. Dr. Felipe Valencia. Depto. de Ing. Eléctrica. UChile.
11:00 11:30	Edificio CIP	Coffee Break
11:30 13:00	Sala 1 CIP	T3: Modeling Non-Linear Dynamic Systems using Computational Intelligence. Prof. Gonzalo Acuña, Dpto. Ing. Informática. Universidad de Santiago de Chile.
	Auditorio CIP	T4: Dynamics of Neural Networks. Prof. Daniel Sbarbaro, Dpto. Ing. Eléctrica Universidad de Concepción. Chile.
	Sala 2 CIP	T5: Control Predictivo Basado en Multi-Agentes para Sistemas de Gran Escala. Dr. Felipe Valencia. Depto. de Ing. Eléctrica. UChile.

IEEE Computational Intelligence Society

ISCI INSTITUTO SISTEMAS COMPLEJOS DE INGENIERÍA

Participants

Institution	Number
INRIA-FRANCE	1
U. Autónoma de Nuevo León. Mexico	1
Universidad Distrital "Francisco José de Caldas". Colombia.	3
Universidade Federal de Minas Gerais. Brazil	1
Minera Esperanza, Chile	3
Pontificia Universidad Católica de Valparaíso, Chile	5
Universidad de Concepción , Chile	2
Universidad de Talca, Chile	3
Universidad de Tarapacá, Chile	1
Universidad de Valparaíso, Chile	5
Universidad de Santiago de Chile	1
Universidad de Chile	23
Universidad de la Frontera, Chile	35
Total	84

Poster Competition

The aim of this Completion is that students can present their applications using Computational Intelligence tools, from undergraduate and graduate works. Authors exposed their work to a jury (Fernando Gomide, Richard Weber, Claudio Perez and Richard Weber) who evaluated them.

Poster competition award:

Award	Authors	Title	Institution	Country
1st	Enrique Germany	Algorithm to detect and decode a continuous estimate of the position (flexion - extension) of the fingers, using surface electromyography in the forearm.	Universidad de Concepción	Chile
2nd	Leonardo Leottau , Carlos Celemin	A Fuzzy Control for Dribbling the Ball with Biped Robots	Universidad de Chile	Chile
3rd	Francisco Jaramillo, Aramis Pérez, Marcos Ortiz, Luis Marín	Modelos de predicción para las fuentes de energía eólica, solar y de la demanda de consumo para la micro-red de Huatacondo	Universidad de Chile	Chile
4th	Arnoldo Valenzuela	Detecting P And S Seismic Signals Using Neural	Universidad de Santiago de Chile	Chile