NNAM 2006 Preliminary Program November 20-24, 2006

	Tutorials	Technical Part		
Hour	Tuesday	Wednesday	Thursday	Friday
08:00-08-20				
08:20-08:40	Registration		Registration	Registration
08:40-09:00		Registration		
09:00-09:20			Invited Talk	Invited Talk
09:20-09:40			Juan vargas	Manuel Reyes Gómez
09:40-10:00			Hall "B"	Hall "B"
10:00-10:20		Opening	Technical Session	Technical Session
10:20-10:40			Data Analysis, Pattern Recognition	Support Vector Machines
10:40-11:00	Tutoriales		and Self-Organization	
11:00-11:20		Invited Talk		Break
11:20-11:40		Bernard Widrow	Break	Technical Session
11:40-12:00		Hall "B"		Vision and Image Processing
12:00-12:20		Technical Session	Technical Session	
12:20-12:40		Algorithms and Learning	Real World Applications	Break
12:40-13:00				
13:00-15:00	Lunch Time	Lunch Time	Lunch Time	Lunch Time
15:00-15:20			Technical Session	
15:20-15:40		Technical Session	Associative Memories	Break
15:40-16:00		Neural Control		
16:00-16:20		and Robotic Applications		Invited Talk
16:20-16:40			Break	Alexander Veindenbaum
16:40-17:00	Tutorials	Break		Hall "B"
17:00-17:20		Invited Talk	Invited Talk	Break
17:20-17:40		Armando Guevara	Jesús Cardeñosa	Invited Talk
17:40-18:00		Hall "B"	Hall "B"	César Galindo Legaria
18:00-18:20	Ī			Hall "B"
18:20-18:40				Closure
18:40-19:00				
19:00- XX:XX				

NNAM 2006 Preliminary Program

Tuesday 21

Tutorials to be held at CIC-IPN from 09:00 to 13:00 and then from 13:00 to 19:00

Wednesday 22

08:00 – 09:40 (Place to be announced) **Registration**

09:40 – 11:00 (Hall "B") **Opening**

11:00 – 12:00 (Hall "B")
Invited Talk: Bernard Widrow
"Cognitive" Memory and its Applications
Chair: Humberto Sossa

12:00 – 13:00 (Place to be announced)

Technical Session: Algorithms and Learning:

Chair: To be announced

Increasing Boltzmann Machine Learning Speed and Accuracy with the High Order Decimation Method Enric Farguell, Eduardo Gómez and Ferran Mazzanti

> Bounded Weights Trajectories for Neural Network State Estimation Isaac Chairez, Alexander Poznyak and Tatyana Poznyak

Hepatitis C Viral Load Control Applying Hamilton-Jacobi And Sliding Mode Techniques Ramón F. Miranda, Isaac Chairez and Agustín Cabrera

> 13:00 – 15:00 **Lunch Time**

15:00 – 16:40 (Place to be announced)

Technical Session: Neural Control and Robotic Applications: Chair: To be announced

Local Optimal Control Based on Neural Network Observer States Nadezhda Aguilar, Agustin Cabrera and Isaac Chairez

A Direct Torque Vector Neural Control of a Three Phase Induction Motor *Ieroham S. Barouh, Carlos R. Mariaca and Irving P. de la Cruz*

Neural Network Model for Balancing a Biped Robot Daniel Zaldivar, Erik Cuevas, Marco A. Pérez and Raul Rojas

RNN Identification and Control of Nonlinear Plants Using the Recursive Marquardt Algorithm Ieroham Barouh, Saul Escalante and Carlos R. Mariaca

> Forward Models and the Prediction of Undesired Situations Bruno Lara, Juan Manuel Rendon and Marcos Capistran

> > 17:00-18:00 (Hall "B")

Invited Talk: Armando Guevara

Is-Net.Net: Spatially Enabled Information Services
Chair: To be announced



Thursday 23

08:00 - 09:00 (Place to be announced) Registration

> 09:00-10:00 (Hall "B") **Invited Talk: Juan Vargas Data Mining** Chair: To be announced



10:00 - 11:20 (Place to be announced)

Technical Session: Data Analysis, Pattern Recognition and Self-Organization: Chair: To be announced

Analysis and Classification of Car Engine Sounds to Diagnose Failures with the Help of Neural Networks Luis A. Méndez and Orión F. Reyes

> Personalizing Google's Search Results using Naïve Bayesian Probabilistic Model Srinivasa K G, Srinivas Kumar M, Vinay T C, Venugopal K R and Lalit M Patnaik

> PM10 Classification with SOM Neural Networks for Air Quality Levels Estimation Maria G. Cortina, J. Miguel Barrón, Sergio Ledesma, D. Andina and A. Vega

Effect of Long-delay Connections to Realize a Self-Organization of Firing Patterns that Vary Smoothly in Space Toshio Akimitsu, Yoichi Okabe and Akira Hirose

> 11:40 - 13:00 (Place to be announced) **Technical Session: Real World Applications**

> > Chair: To be announced

The Use of Artificial Neural Networks in Modeling the High-Pressure, Suspensive Waterjet Cutting Process of Syenite Andrzej Perec, Grzegorz Dzuga and Mateusz Ruzylo

Physical Model-Free Observer for Nuclear Reactors using Differential Neural Networks with Sliding Mode Learning José H. Pérez and Alexander Poznyak

> Unusual Changes of Consumption Detection in Mobile Phone Users Paola Britos, Hernan Grosser, Enrique Sierra and Ramon Garcia

Selecting Pedagogical Protocols Using SOM Fernando Salgueiro, Zulma Cataldi, Paola Britos, Enrique Sierra and Ramon Garcia

> 13:00 - 15:00**Lunch Time**

15:00 - 16:00 (Place to be announced)

Technical Session: Associative Memories:

Chair: To be announced

Associative Memory: Information and Topology David Dominguez, Kostadin Koroutchev, Eduardo Serrano and Francisco Rodríguez

> Alternative Algorithm for Multi-Lavered Morphological Networks Ricardo Barrón, Humberto Sossa and Benjamín Cruz

Efficient Codebooks for Visual Concept Recognition by ASSOMs Activation Grégoire Lefebvre and Christophe Garcia

17:00-18:00 (Hall "B")

Invited Talk: Jesús Cardeñoza Universal Networking Language

Chair: To be announced



Friday 24

08:00 - 09:00 (Place to be announced) Registration

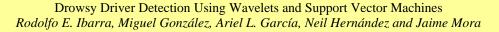
09:00-10:00 (Hall "B")

Invited Talk: Manuel Reves Probabilistic Graphical Models for Audio and Biology

Chair: To be announced

10:00 - 11:00 (Place to be announced) **Technical Session: Support Vector Machines**

Chair: To be announced



Isolated Character Recognition by using Support Vector Machines and Optimal Feature Vectors Hermenegildo Cisneros, Ricardo Barrón and Benjamín Cruz

Heuristics to Reduce the Training Time of SVM Algorithm Ariel L. García, Neil Hernández, Miguel González, Rodolfo E. Ibarra and Jaime Mora

11:20 - 12:20 (Place to be announced)

Technical Session: Vision and Image Processing Chair: To be announced

Performance of Lossy Image Compression Coders on Textures Osslan O. Vergara, Raúl Pinto and José Ruíz

SOFM Neural Network Texture Segmentation Erik Cuevas, Daniel Zaldivar, Marco A. Pérez and Raul Rojas

Licence Plate Location and Recognition Using Decision Regions of Color with Genetic Algoritms and Neural Networks Gilberto A. Apodaca and Patricia Rayón

> 13:00 - 15:00 **Lunch Time**

16:00 - 17:00 (Hall "B")

Invited Talk: Alexander Veindenbaum

Architectural Techniques for Reducing Energy Consumption in Associative Data Caches Chair: To be announced

17:20 - 18:20 (Hall "B")

Invited Talk: César Galindo Legaria **Evolution of Database Technologies**

Chair: To be announced

18:20 - 19:00 (Hall "B") Closure

