

EDITORIAL

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In this issue of “*Computación y Sistemas*” we publish several papers devoted mainly to problems related to intelligent techniques applied in different aspects of the system analysis: communication networks modeling, artificial systems for finger movement, R&D project selection, etc. In this issue the reader will find five research papers and an extended summary of a Ph. D. thesis.

In their article “Intelligent Techniques for R&D Project Selection in Large Social Organizations”, Fernández, Lopez, Navarro and Duarte describe a new methodology for intelligent techniques applied in R&D selection projects for large social organizations. The Kernel of this methodology is made up, essentially, of five points which cover the feasibility of the project success, knowledge and beliefs of the organization’s top managers, etc. This paper presents examples that clearly show the methodology’s efficiency.

The paper “Sensor Foto-Eléctrico Aplicado al Movimiento de los Dedos de las Manos” by Leybón Ibarra, Ramírez Barba and Taboada is devoted to a detailed development of an instrumental glove that allows the emulate the finger’s movement using foto-electric devices.

The paper Design and Analysis of a MEMS Variable Capacitor Using Thermal Actuators” from Mireles, Ochoa e Hinostroza is dedicated to the design and analysis of a variable capacitor coupled to thermal actuators using MEMS technologies. This work applies design and fabrication methods based on different software tools. The final results show that the proposed capacitors can be applied in the filter and oscillator design.

The work entitled “Heavy Tailed Network Delay: An Alpha-Stable Model” from Muñoz, Villareal, Vargas, et al. describes a general end-to-end delay model for a multi-node communication network whose traffic characteristics are describe by the theory of alfa-stable processes.

In their paper “Statistical characterization and Optimization of Artificial Neural Networks in Time Series Forecasting: The One-Period Forecast Case”, Salazar, Moreno y Cabrera investigate the problem of time series forecast by proposing an statistical characterization together with the optimization of the artificial neural networks. This approach is applied to the one-period forecast case and also some results for telecommunication forecast problems are presented.

Finally in this issue, Acevedo Mosqueda presents an extended abstract of her Doctoral thesis: “Alpha-Beta Bidirectional Associative Memories” where she proposes a new model for bi-directional associative memories without any stability problems. The memory model is non-iterative.

The papers published in this issue will be useful for students and researchers working in areas related to the different system analysis that can be found in the computing science. Moreover, the papers presented here demonstrate the strong vitality of the research community, close to “*Computación y Sistemas*”.

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