



Editors: Francklin Rivas-Echeverria, Gloria Mousalli-Kayat

# Advances in E-Activities, Information Security and Privacy

Advances in E-Activities, Information Security and Privacy

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National Autonomous University  
Merida, Venezuela



9<sup>th</sup> WSEAS International Conference on  
E-Activities (E-ACTIVITIES '10)

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**Editors:**

Prof. Francklin Rivas-Echeverria, Universidad de Los Andes, Merida, Venezuela

Prof. Gloria Mousalli-Kayat, Universidad de Los Andes, Merida, Venezuela

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**Preface**

This year the 9th WSEAS International Conference on E-ACTIVITIES (E-ACTIVITIES '10) and the 9th WSEAS International Conference on INFORMATION SECURITY and PRIVACY (ISP '10) were held at the University of Los Andes, Merida, Venezuela, December 14-16, 2010. The conferences remain faithful to their original idea of providing a platform to discuss E-Learning, E-Communities, E-Commerce, E-Management, E-Marketing, E-Governance, passive attacks, active attacks, viruses, Trojan horses, worms, denial of service, information security services etc. with participants from all over the world, both from academia and from industry.

Their success is reflected in the papers received, with participants coming from several countries, allowing a real multinational multicultural exchange of experiences and ideas.

The accepted papers of these conferences are published in this Book that will be indexed by ISI. Please, check it: [www.worldses.org/indexes](http://www.worldses.org/indexes) as well as in the CD-ROM Proceedings. They will be also available in the E-Library of the WSEAS. The best papers will be also promoted in many Journals for further evaluation.

Conferences such as these can only succeed as a team effort, so the Editors want to thank the International Scientific Committee and the Reviewers for their excellent work in reviewing the papers as well as their invaluable input and advice.

The Editors





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## Plenary Lecture 1

### Information Systems and Artificial Intelligence Applications and Limitations on Medical E-learning and E-Management, a Venezuelan Experience



#### **Professor Carlos Rivas-Echeverria**

Laboratorio de Sistemas Inteligentes, Universidad de Los Andes

also with

Clinicas del Sueno SLEEPCARE & Fundacion Dra. Yolanda Echeverria

Merida, 5101

VENEZUELA

E-mail: [rivasecheverria@gmail.com](mailto:rivasecheverria@gmail.com)

**Abstract:** Information systems and artificial intelligence have plenty applications on the medical field and they are wide and common. Computer support has shown that can improve the quality of general medical care. It can improve the efficiency and optimize the management of the sanitary system and the clinical practice; and can reduce errors. Most countries are using electronic health records for the primary care system and hospitals. Electronic drug prescribing has significantly reduce drug errors. Telemedicine (including robotics) had delivered specialized medicine regardless the distance where the patients or physicians are located. Digital imaging management has facilitated the availability of images throughout the whole healthcare system, dramatically reducing film-developing and other costs while making them immediately available to the practitioner. Informatics management is fundamental to health care delivery. These are just a few examples among several other applications. Our laboratory, in Venezuela, has developed several expert systems and information systems that have been particularly designed for educational purposes; and recently we have developed some that also have applications on management. The plenary session includes the features and applications of the systems as well as their limitations in a developing country like ours. The trends and possible future for these systems are also discussed.

**Brief Biography of the Speaker:** Carlos Rivas-Echeverria, MD, PhD, FACP. Specialist in Internal Medicine and in Critical Care. Has a Master Degree on Sleep Medicine and a Diplomate on Franchising Systems Management. Is the Head of the SLEEPCARE Sleep Clinics. Is Full Professor at the University of Los Andes, Head of the Department of Pharmacology. He is cofounder and active Member of the Intelligent Systems Laboratory. Over 60 publications in high level conferences and journals: the main topics of his papers are: Hypertensive disorders of pregnancy, sleep disorders, traffic accidents and artificial intelligence.