Editorial

Dear readers and collaborators,

It is a pleasure to announce the first edition of *Journal of Applied Computing Research* (JACR).

You are welcome to explore this new channel of online publications that aims to publish the scientific advances on applied computing, and contributes to enrich the research field with innovative solutions able to be applied in real problems.

The mission of JACR, as an open-access journal, is to receive and evaluate scientific investigation and make available for the world community the current investigation about different areas of computer science dedicated to resolving relevant issues of different sectors of the economy.

The first issue of the JACR shows five contributions related to the innovation in different fields, like: robotic mapping, knowledge management in corporative environments, collaborative investigations of context-aware computing in ubiquitous systems, search engine mechanism on the web and improvements in the petroleum exploration process. The innovative solutions were based on methodologies of cloud computing and artificial intelligence.

The first article, *IGMN: An incremental connectionist approach for concept formation, reinforcement learning and robotics*, shows the development of a new connectionist approach inspired on the recent theories about brain, like Memory-Prediction Framework and Constructivist Artificial Intelligence, applied to upgrade the concept formation and reinforcement learning areas and to improve robotic mapping.

The next study, *Recommending knowledge in a knowledge based social network*, explores the knowledge management based on a recommender system applied to solve problems related to improve the communication and sharing knowledge in corporative environments.

The third work, *Conflicts treatment for ubiquitous collective and context-aware applications*, shows the investigation of context-aware computing in collaborative systems, proposed to detect and solve conflicts in ubiquitous systems like a tourist guide.

The investigation on the web search engine based on implicit social bookmarking and collaborative filtering to retrieve content is investigated in the fourth article, *DJINN: Implementation and evaluation of implicit social bookmarking paradigm*.

Finally, the last article - *Artificial neural networks for predicting petroleum quality* - shows an investigation to improve the process to select relevant features by artificial neural network. The case study is petroleum exploration based on petrophysical properties of the rocks.

Enjoy your reading! We hope you will feel instigated to publish your research here.

João Francisco Valiati
Editor