

## Managing Editor's Column

Vol. 27, No. 6

Dear Readers,

Welcome to the sixth issue in 2021. I am very pleased to announce the journals' Scopus CiteScore of 2.0 for 2020, indicating another scientifically successful year. On behalf of the J.UCS team, I would like to thank all authors for their sound research contributions, the reviewers for their very helpful suggestions and the consortium members for their financial support. Your commitment and dedicated work have strongly contributed to the long-lasting success of our journal.

In this regular issue, I am very pleased to introduce 5 accepted papers from 17 authors of 6 different countries.

Edinelço Dalcumune, Luis Antonio Brasil Kowada, André da Cunha Ribeiro, Celina Miraglia Herrera de Figueiredo and Franklin de Lima Marquezino from Brazil present in their article a new algorithm for the synthesis of reversible circuits for arbitrary n-bit bijective functions using generalized Toffoli gates, which include positive and negative controls. Murat Firat, Derya Yılmaz-Kaplan and Ruya Samli introduce their work on a machine learning method – including Artificial Neural Network (ANN), Linear Regression (LR) and Gradient Boosting (GB) – for determining optimal seat capacity that can supply the highest load factor for the flight operation between any two countries. In a collaborative research between Switzerland, China and the Netherlands Fabian Honegger, Yuan Feng and Matthias Rauterberg have investigated effects of visual, auditory, vibration and draught stimuli on the sense of presence within a virtual environment. Julio Moreno, David G. Rosado, Luis E. Sánchez, Manuel A. Serrano and Eduardo Fernández-Medina from Spain discuss in their research a security reference architecture for cyber-physical systems. Adem Tuncer from Turkey introduces a new approach based on an Artificial Bee Colony Algorithm for solving the 15-puzzle problem.

Enjoy Reading!

Cordially,



Christian Gütl, Managing Editor  
Graz University of Technology, Graz, Austria  
Email: [c.guetl@tugraz.at](mailto:c.guetl@tugraz.at)