In this issue

Research Article

Central configurations of the circular restricted 4-body problem with three equal primaries in the collinear central configuration of the-3 body problem

Published On: January 04, 2021 | Pages: 001 - 006

Author(s): Jaume Llibre*

In this paper we classify the central configurations of the circular restricted 4-body problem with three primaries with equal masses at the collinear configuration of the 3-body problem and an infinitisimal mass. ...

Abstract View   Full Article View   DOI: 10.17352/tcsit.000031

Review Article

Analysis of spectrum allocation of secondary users based on linear cooperative spectrum sensing techniques in cognitive radio networks

Published On: April 14, 2021 | Pages: 025 - 033

Author(s): Zachary Bosire Omariba*

This study is based on using the optimization problem of linear cooperative spectrum sensing (CSS) techniques for the analysis and correlation of spectrum allocation to secondary users (SUs) without interfering with the operations of the primary users. To achieve this the system must discover when the licensed users are not using their assigned spectrum so that the sp ...

Abstract View   Full Article View   DOI: 10.17352/tcsit.000035

Short Communication

Research on blockchain in the integrated application of medical services

Published On: May 12, 2021 | Pages: 034 - 035

Author(s): Chin-Ling Chen*

«The technology that is most likely to change the corporate world in the next ten years is not social networks, big data, cloud computing, robots; not even artificial intelligence, but blockchain.» «Blockchain Revolution: How the Technology Behind Bitcoin Is Changing Money, Business, and the World», ranked among the top 50 management thinkers in the world and author o ...

Abstract View   Full Article View   DOI: 10.17352/tcsit.000036

Mini Review

A virtual imprint of the artificial neural networks

Published On: March 22, 2021 | Pages: 017 - 019

Author(s): Gaurav Kumar*

Artificial neural systems ordinarily alluded because the neural systems are the information or signal process scientific demonstrate that is supported the natural nerve cell. A neural network is also complicated structure that comprise a bunch of interconnected neurons which provides an extremely energizing choices for complex drawback understanding and different appl ...

Abstract View   Full Article View   DOI: 10.17352/tcsit.000033

Procedures

Fast algorithms for particle searching and positioning by cell registration and area comparison

Published On: March 05, 2021 | Pages: 007 - 016

Author(s): Yoshifumi Ogami*

In the direct simulation Monte Carlo method and multi-phase flow calculations, structured and unstructured grid systems

for complex geometries necessitate the time-consuming process of searching a large number of cells to position target particles. This paper proposes effective computational methods for particle searching and positioning that are applicable to structu ...

Observational Study

A survey of machine learning applications in digital forensics

Author(s): Hilmand Khan*, Sarmad Hanif and Bakht Muhammad

We address the role of machine learning in digital forensics in this paper, in order to have a better understanding of where machine learning stand in today's cyber security domain when it comes to collecting digital evidence. We started by talking about Digital Forensics and its past. Then, to illustrate the fields of digital forensics where machine learning methods ...