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Publications (37)

SDN-based DDoS Attack Mitigation Scheme using Convolution Recursively Enhanced Self Organizing Maps

Article Dec 2020

Pillutla Harikrishna A Amuthan

In a cloud computing environment, the Distributed Denial of Service (DDoS) attack is considered as the crucial issue that needs to be addressed in ensuring the availability of resources that emerge due to the compromisation of hosts. The process of detecting and preventing DDoS attacks is determined to be predominant when the potential benefits of...

Hybrid GSW and DM based fully homomorphic encryption scheme for handling false data injection attacks under privacy preserving data aggregation in fog computing

Article Nov 2020

A. Amuthan R. Sendhil

In recent years, the area of fog computing is receiving maximum focus due to the potential improvements in the cloud computing field. Fog computing is capable of resolving issues that includes location awareness, inadequate mobility support and high latency in the cloud computing environment. The internet of things (IoT) comprises of a collection o...

An Intelligent Artificial Bee Colony and Adaptive Bacterial Foraging Optimization Scheme for reliable breast cancer diagnosis

Article Jun 2020

S. Punitha A. Amuthan Suresh Joseph K

Breast cancer is essential to be detected in primitive localized stage for enhancing the possibility of survival since it is considered as the major malediction to the women society around the globe. Most of the intelligent approaches devised for breast cancer necessitates expertise that results in reliable identification of patterns that conclude...

An effective variant ring signature-based pseudonym changing mechanism for privacy preservation in mixed zones of vehicular networks

Apr2020

C. Kalaiarasy N. Sreenath A. Amuthan

The privacy information related to the location of the vehicles need to be concealed with utmost care in the vehicular network since its disclosure leads to a diversified number of attacks that degrades the performance of the network. But, the privacy of vehicles relies on a kind of pseudonym changing mechanism utilized in the mix zone of the vehic...

An availability predictive trust factor-based semi-Markov mechanism for effective cluster head selection in wireless sensor networks

ArticleDec 2019

Amuthan A. Arulmurugan A.

The longevity of the sensor networks purely depends on the effectiveness of a cluster head selection process that attributes towards effective network management in wireless sensor networks. However, the majority of the cluster head selection schemes are considered an unrealistic condition which ponders the sensor nodes that have the possibility of...

Weighted inertia-based dynamic virtual bat algorithm to detect NLOS nodes for reliable data dissemination in VANETs

Article Nov 2019

A. Amuthan R. Kaviarasan

Vehicular ad hoc network (VANET) is the significant network suitable for the deployment of risk-free environment that ensures least congestion and secure collaboration among the vehicular nodes of the network. The maintenance of connectivity among vehicular nodes is influenced by non line of sight (NLOS) nodes by introducing broadcasting storm and...

Rank Criteria Improved Confidence-based Centroid Scheme for Non Line of Sight Node localizations in Vehicular Networks

Article Oct 2019

A. Amuthan R. Kaviarasan

The location verification of the vehicles interacting during the process of communication needs to be cooperatively determined under Non Line Of Sight (NLOS) situations for facilitating risk free environment with the least degree of congestion. The vehicular nodes in NLOS conditions possess the possibility of introducing channel congestion and broa...

Integrated probability multi-search and solution acceptance rule-based artificial bee colony optimization scheme for web service composition

Article Jul 2019

N. Arunachalam A. Amuthan

Web service composition is considered as the hottest and potential research area in the domain of Service Oriented Architecture since the users focus on Quality of Service (QoS) and transaction properties included in the integration of services. Moreover, the potential quality of modularity and reusability features of web services has wide open the...