

# Foreword and Editorial

## International Journal of Cloud-Computing and Super-Computing (IJCS)

We are very happy to publish this issue of an International Journal of Cloud-Computing and Super-Computing by Global Vision Press.

This issue contains 2 articles. Achieving such a high quality of papers would have been impossible without the huge work that was undertaken by the Editorial Board members and External Reviewers. We take this opportunity to thank them for their great support and cooperation.

The paper entitled “Energy Diminution Methods in Green Cloud Computing”, distributed computing center around the information figuring proficiency whereas green distributed computing is reasoning which depends on distributed computing design and concentrates on the vitality productivity of gadget and processing. Green Cloud Computing is an approach used to enhance the usage of figuring assets those are being utilized as part of the distributed computing system, for example, stockpiling, servers, its application, and benefits and decrease vitality utilization of these assets which enhances control proficiency. This is finished by different innovations like virtualization and virtual machines movement. This paper surveys the different systems purposed by the distinctive creators to make distributed computing more vitality proficient. The primary target of this paper is to think about and break down the idea of vitality proficient server farm engineering, asset allotment and streamlining.

In the paper “Virtual Secure Link over Software-Defined Bridged Networks”, Ethernet can transfer massive data stream flows as well as real-time flows supported by Time-Sensitive Network (TSN). The MAC layer security, MACsec, is defined at IEEE Std 802.1AE and IEEE Std 802.1X. However, a security association established by MACsec protects the communication among devices within single LAN at bridged networks. Therefore, a packet traversing several LANs must be decrypted and re-encrypted at each bridge. We propose a new virtual secure link over the Software-Defined Bridged Networks (SDBN). In SDBN, end-devices interact with the central MACsec module, running over the Software-Defined Network (SDN) controller, using the standard MACsec procedure. The central MACsec module recognizes a group of devices at the bridged networks regardless of their attached LANs. These devices are treated as they are attached to the same virtual link. The proposed scheme supports end-to-end unicast/multicast secure communication without any modification of the current MACsec standards as well as eliminating the security operation required at bridges in bridged networks.

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