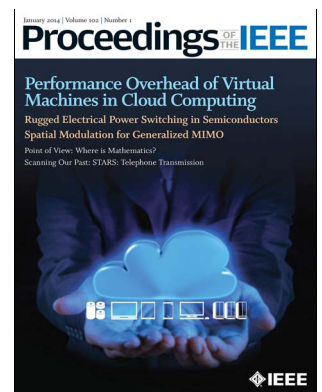


P A P E R S

- 11 **Managing Performance Overhead of Virtual Machines in Cloud Computing: A Survey, State of the Art, and Future Directions**  
By *F. Xu, F. Liu, H. Jin, and A. V. Vasilakos*  
|CONTRIBUTED PAPER| This survey reviews the latest solutions for managing performance overhead in three cloud scenarios, namely, single-server virtualization, single mega datacenter, and multiple geodistributed datacenters.
- 7 **Prolog, J. Esch**
- 35 **Rugged Electrical Power Switching in Semiconductors: A Systems Approach**  
By *K. Shenai, M. Dudley, and R. F. Davis*  
|CONTRIBUTED PAPER| This paper deals with power semiconductor manufacturing technology design and development from a system perspective by taking into consideration field reliability of power semiconductor devices in power electronic circuit applications.
- 32 **Prolog, J. Esch**
- 56 **Spatial Modulation for Generalized MIMO: Challenges, Opportunities, and Implementation**  
By *M. Di Renzo, H. Haas, A. Ghayeb, S. Sugiura, and L. Hanzo*  
|CONTRIBUTED PAPER| This tutorial paper offers a comprehensive overview of the state of the art in spatial modulation for generalized multiple-input–multiple-output (MIMO) technologies.
- 53 **Prolog, J. Esch**

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**On the Cover:** Our cover this month highlights the paper on managing performance overhead in cloud computing. Performance overhead is one of the most important concern of tenants in the Infrastructure-as-a-service (IaaS) cloud.