Energy Saving and Mobile Services Computing

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This regular issue of the International Journal of Web Services research (IJWSR) collects four papers.

The first paper is titled Smart XSS Attack Surveillance System for OSN in Virtualized Intelligence Network of Nodes of Fog Computing. Aiming at the issue of XSS attack on the contemporary distributed intelligence network of Cloud data centers and Fog computing devices, Shashank Gupta and B. B. Gupta introduce a smart XSS attack monitoring system to reduce the burden of excessive computation on Cloud data centers deployed on the core of the network.

The second paper is titled Exploring the Influence of Contexts for Mobile Recommendation. To address the challenge of high-quality recommendation in a complicated mobile environment, Jun Zeng et al. explore the influence of contexts in a mobile environment and summarize the state of the art in context-aware recommender systems.

The third paper is titled Framework of MLaaS for Facilitating Adaptive Micro Learning through Open Education Resources in Mobile Environment. Geng Sun et al. propose a framework for micro learning resource customization and a personalized learner model, and they also design a service-oriented architecture for Micro Learning as a Service (MLaaS) that integrates all necessary procedures together as a complete Service for delivering micro OERs.

The fourth paper is titled An energy-aware and under-SLA-constraints VM consolidation strategy based on the optimal matching method. Weiling Li et al. attempt to tackle the challenge of reducing energy consumption of Cloud data centers by presenting a comprehensive framework, which maximizes the number of physical machines (PMs) to be turned off within a consolidation period according to the constraints of QoS, in terms of Service-Level-Agreement (SLA) violation rate.

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Liang-Jie (LJ) Zhang received his Ph. on Pattern Recognition and Intelligent Control from Tsinghua University. Currently he is the Chief Technology Officer (CTO) and Senior Vice President of Kingdee International Software Group Company Limited. Dr. Zhang has published more than 160 technical papers in journals, book chapters and conference proceedings. He has 50 granted patents. He was elected as an IEEE Fellow in 2011, and in the same year won the Technical Achievement Award “for pioneering contributions to Application Design Techniques in Services Computing” from IEEE Computer Society. He has served as the President of Shenzhen Big Data Alliance since 2013. Dr. Zhang is the Editor-in-Chief of the International Journal of Web Services Research (IJWSR).