

2012 IEEE 1st International Conference on Cloud Networking (CLOUDNET 2012)

**Paris, France
28 – 30 November 2012**



**IEEE Catalog Number: CFP1268T-PRT
ISBN: 978-1-4673-2797-8**

TABLE OF CONTENTS

Understanding the Network Level Performance of Virtualization Solutions	1
<i>A. Arsene, D. Lopez-Pacheco, G. Urvoy-Keller</i>	
Elastic Virtualized Network Services	6
<i>M. Baldi, M. Benedetto</i>	
Estimating Service Response Time for Elastic Cloud Applications	12
<i>K. Salah, R. Boutaba</i>	
Server Side Networking for Cloud Data Centers	17
<i>M. Satou, K. Onoune, N. Matsuoka, K. Miyazaki, J. Tanaka</i>	
Cloptimus: A Multi-Objective Cloud Data Center And Software Component Location Framework	23
<i>F. Larumbe, B. Sanso</i>	
Cost-Aware Workload Consolidation in Green Cloud Datacenter	29
<i>L. Tsai, W. Liao</i>	
Optimal Mapping of Virtual Networks Considering Reactive Reconfiguration	35
<i>P. Tran, L. Casucci, A. Timm-Giel</i>	
A SLA-compliant Cloud Resource Allocation Framework for N-tier Applications	41
<i>A. McConnell, G. Parr, S. McClean, P. Morrow, B. Scotney</i>	
Cloud Networking Mean Field Games	46
<i>A. Hanif, H. Tembine, M. Assaad, D. Zeglache</i>	
Quantized Congestion Notification for Multicast in Data Center Networks	51
<i>Y. Tanisawa, Y. Hayashi, M. Yamamoto</i>	
Network in the Cloud: a Map-and-Encap Approach	57
<i>D. Saucez, W. Haddad</i>	
Cloud Monitoring: Definitions, Issues And Future Directions	63
<i>G. Aceto, A. Botta, W. Donato, A. Pescape</i>	
A Monitoring System for Federated Clouds	68
<i>Y. Al-Hazmi, K. Campowsky, T. Magedanz</i>	
Social-like Analysis on Virtual Machine Communication Traces	75
<i>P. Kokkinos, T. Varvarigou, A. Kretsis, E. Varvarigos</i>	
To Offload Or Not To Offload: An Efficient Code Partition Algorithm For Mobile Cloud Computing	80
<i>Y. Zhang, H. Liu, L. Jiao, X. Fu</i>	
Web-based Adaptive Application Mobility	87
<i>D. Johansson, K. Andersson</i>	
Energy-Efficient Computation Offloading Model For Mobile Phone Environment	95
<i>K. Fekete, K. Csorba, B. Forstner, M. Feher, T. Vajk</i>	
Cloud Storage for Small Cell Networks	100
<i>E. Bastug, J. Guenego, M. Debbah</i>	
Energy Consumption of Remote Desktop Access on Mobile Devices: An Experimental Study	105
<i>Y. Lin, M. Francesco</i>	
Green Mobile Clouds: Network Coding and User Cooperation for Improved Energy Efficiency	111
<i>J. Heide, F. Fitzek, M. Pedersen, M. Katz</i>	
Energy Efficient Flexible-Bandwidth OFDM-Based Data Center Network	119
<i>C. Kachris, P. Ji, T. Wang, I. Tomkos</i>	
Negotiating On-Demand Connectivity between Clouds and Wide Area Networks	124
<i>H. Puthalath, B. Melander, J. Soares, J. Carapinha, A. Sefidcon, M. Melo</i>	
Network-Aware Cloud Brokerage For Telecommunication Services	131
<i>G. Carella, T. Magedanz, K. Campowsky, F. Schreiner</i>	
Scheduling Cloud Capacity for Time- Varying Customer Demand	137
<i>B. Bouterse, H. Perros</i>	
Light-Weight Remote Communication for High-Performance Cloud Networks	143
<i>J. Kehne, M. Hillenbrand, J. Stoess, F. Belloso</i>	
Using libNetVirt to Control The Virtual Network	148
<i>D. Turull, M. Hidell, P. Sjodin</i>	
Collaboration Interface for Network Services Invocation by Cloud Management Systems	153
<i>B. Mathieu, A. Chari, S. Ellouze, I. Grosclaude, E. Mykoniati, N. Schwan</i>	
Limited Negative Surveys: Privacy-Preserving Participatory Sensing	158
<i>S. Aoki, M. Iwai, K. Sezaki</i>	

On the Benefit of Collocation in Virtual Network Embeddings	161
<i>C. Fuerst, S. Schmid, A. Feldmann</i>	
Pivot-based Fast Automatic Address Configuration for Data Center Network	164
<i>C. Lu, Z. Jiang, Y. Cai, G. Zhang, J. Yu, W. Liang, J. Bi</i>	
Privacy Control in the Cloud based on Multilevel Policy Enforcement	167
<i>S. Betge-Brezetz, G. Kamga, M. Ghorbel, M. Dupont</i>	
UCloud: A Simulated Hybrid Cloud for A University Environment	170
<i>M. Sqalli, M. Al-saeedi, F. Binbeshr, M. Siddiqui</i>	
Superlinear Speedup in Windows Azure Cloud	173
<i>M. Gusev, S. Ristov</i>	
A Lightweight Multi-User Authentication Scheme based on Cellular Automata in Cloud Environment	176
<i>S. Shin, D. Kim, K. Yoo</i>	
Resource Allocation for Cloud SaaS Offerings based on Social Web Applications	179
<i>A. Schwanengel, M. Jaeger, U. Hohenstein</i>	
On The Viability Of A CSO Architecture For On-Demand Virtualized Cloud Planning And Provisioning	182
<i>J. Aznar, J. Rodriguez, J. Buysse, S. Peng, F. Anhalt, J. Garcia-Espin</i>	
Analysis of the Handover Procedure in Follow-Me Cloud	185
<i>R. Bifulco, R. Canonico</i>	
Realtime Utilisation of Cloud Storage	188
<i>A. Blair, G. Parr, P. Morrow, B. Scotney, A. McConnell, S. Appleby, M. Nilsson</i>	
Energy Efficient joint DTX and MIMO in Cloud Radio Access Networks	191
<i>R. Gupta, E. Strinati, D. Ktenas</i>	
Strong Virtual Network Authentication using EAP-TLS Smart-Cards	197
<i>F. Guenane, G. Pujolle</i>	
Demonstrating LISP-based Virtual Machine Mobility for Cloud Networks	200
<i>P. Raad, G. Colombo, D. Chi, S. Secci, A. Cianfrani, P. Gallard, G. Pujolle</i>	
Demonstrating a Versatile Model for VoD Buzz Workload in a Large Scale Distributed Network	203
<i>J. Delavoix, S. Roy, T. Begin, P. Goncalves</i>	
Virtual Access Point to the Cloud	206
<i>O. Braham, G. Pujolle</i>	
Adaptive Multimedia Content in Mobile Cloud Computing Environment	209
<i>A. Karadimce, D. Davcev</i>	
Implementing OpenFlow-based Resilient Network Services	212
<i>K. Phemius, M. Bouet</i>	
Simulating Communication Processes in Energy-Efficient Cloud Computing Systems	215
<i>D. Kliazovich, P. Bouvry, S. Khan</i>	
Author Index	