

MUKIL KESAVAN

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Education

PhD, Computer Science	May 2008 – Present
Georgia Institute of Technology, Atlanta, USA.	
<u>Advisor</u> : Prof. Karsten Schwan	
Cumulative Grade Point Average	3.79/4.0
Master of Science, Computer Science	May 2008
Georgia Institute of Technology, Atlanta, USA.	
Cumulative Grade Point Average	3.84/4.0
Bachelor of Engineering, Computer Engineering	June 2005
College of Engineering, Guindy – Anna University, India.	
Cumulative Grade Point Average	8.42/10

Skills

OS/Hypervisors	Linux, Windows, Xen, VMware ESX Server
Databases	SQL, PL/SQL
Programming	C, C++, Java, X86 ASM, Bash Scripting, Python

Industry Work Experience

Member of Technical Staff Intern, VMware , Cambridge, MA (Jun 10 – Aug 10)
Member of Technical Staff Intern, VMware , Cambridge, MA (May 09 – Aug 09)
<i>Hierarchical Resource Management for Cloud Environments</i>
Research Intern, Microsoft Research , Redmond, WA (June 08 – Aug 08)
<i>Power-aware Multicore Scheduling</i>
Member of Technical Staff Intern, VMware , Palo Alto, CA (June 07 – Aug 07)
<i>Host based Anti-virus Solution</i>
Software Engineer, Verizon Data Services India , India (June 05 – July 06)
<i>Jabber-XMPP Protocol Implementation</i>
<i>FiOS Drive Data Backup and Synchronization</i>

Academic Work Experience

Research Assistant, Georgia Tech , Atlanta, GA (Aug 2007 – Present)
<i>ViP: Virtualized Multi-core Platforms</i>
Teaching Assistant/Grader, Georgia Tech , Atlanta, GA (Aug 2007 – Dec 2007)
<i>CS6210: Advanced Operating Systems</i>
Research Assistant, Georgia Tech , Atlanta, GA (Jan 2007 – May 2007)
<i>Aware Home Research Initiative</i>

Publications

"Differential Virtual Time (DVT): Rethinking I/O Service Differentiation for Virtual Machines", Mukil Kesavan, Ada Gavrilovska, Karsten Schwan, ACM Symposium on Cloud Computing 2010 (SOCC '10), Indianapolis, USA, June 2010.

"On Disk I/O Scheduling in Virtual Machines", Mukil Kesavan, Ada Gavrilovska, Karsten Schwan, Workshop on I/O Virtualization (WIOV '10) colocated with ASPLOS 2010 and VEE 2010, Pittsburgh, USA, Mar. 2010.

Mukil Kesavan, Adit Ranadive, Ada Gavrilovska, Karsten Schwan, *"Active Coordination (ACT) - Towards Effectively Managing Virtualized Multicore Clouds"*, Cluster 2008, Japan, Sep. 2008.

Adit Ranadive, Mukil Kesavan, Ada Gavrilovska, Karsten Schwan, *Performance Implications of Virtualizing Multicore Cluster Machines*, 2nd Workshop on System-level Virtualization for High Performance Computing, Glasgow, (HPCVirt 2008).

Patents

System and Method for Automatically Optimizing Capacity Between Server Clusters (Patent Filed – Feb 3, 2010).

Posters

Mukil Kesavan et.al, "Coordinated Resource Management on Virtualized Multicore Clouds", VMworld 2008 Academic Poster Session, Las Vegas, September 2008.

Mukil Kesavan, "Host-Based Anti-virus Scanning", VMworld 2007 Academic Poster Session, San Francisco, September 2007.

Mukil Kesavan, D. Amrit Swarup, K. Palanivel Andiappan, "A Generic Resilient Multipath Routing Mechanism for Failure Prone Ad Hoc Networks", 12th IEEE International Conference on High Performance Computing (HiPC'2005) - Poster/Presentation Session.