



CALL FOR PARTICIPATION

<http://icac2012.cs.fiu.edu>

The 9th ACM International Conference on Autonomic Computing (ICAC), San Jose, California, September 17-21, 2012

MON	TUESDAY, SEPTEMBER 18 2012	WEDNESDAY, SEPTEMBER 19 2012	THURSDAY, SEPTEMBER 20 2012	FRI
	8:45 Welcome remarks			
	9:00 Keynote Talk I SYMBIOSIS IN SCALE OUT NETWORKING AND DATA MANAGEMENT <i>Amin Vahdat, Google and University of California, San Diego</i>	9:00 Keynote Talk II AUTOMATED MACHINE LEARNING FOR AUTONOMIC COMPUTING <i>Subutai Ahmad, VP Engineering, Numenta</i>	9:00 Keynote Talk III HIGH EFFICIENCY AT WEB SCALE: <i>Eitan Frachtenberg, Facebook</i>	
	10:00 Break	10:00 Break	10:00 Break	
	10:30 Session: Virtualization NET-COHORT: DETECTING AND MANAGING VM ENSEMBLES IN VIRTUALIZED DATA CENTERS: <i>Linting Hu, Karsten Schwan, Ajay Gulati, Junjie Zhang, Chengwei Wang</i> APPLICATION-AWARE CROSS-LAYER VIRTUAL MACHINE RESOURCE MANAGEMENT: <i>Lixi Wang, Jing Xu, Ming Zhao</i> SHIFTING GEARS TO ENABLE GUEST-CONTEXT VIRTUAL SERVICES: <i>Kyle Hale, Lei Xia, Peter Dinda</i>	10:30 Session: Control-Based Approaches BUDGET-BASED CONTROL FOR INTERACTIVE SERVICES WITH ADAPTIVE EXECUTION: <i>Yuxiong He, Zihao Ye, Qiang Fu, Sameh Elnikety</i> ON THE DESIGN OF DECENTRALIZED CONTROL ARCHITECTURES FOR WORKLOAD CONSOLIDATION IN LARGE-SCALE SERVER CLUSTERS: <i>Rui Wang, Nagarajan Kandasamy</i> TRANSACTIONAL AUTO SCALER: ELASTIC SCALING OF IN-MEMORY TRANSACTIONAL DATA GRIDS: <i>Diego Didona, Paolo Romano, Sebastiano Peluso, Francesco Quaglia</i>	10:30 Session: Diagnosis and Monitoring 3-DIMENSIONAL ROOT CAUSE DIAGNOSIS VIA CO-ANALYSIS: <i>Ziming Zheng, Li Yu, Zhiling Lan, Terry Jones</i> UBL: UNSUPERVISED BEHAVIOR LEARNING FOR PREDICTING PERFORMANCE ANOMALIES IN VIRTUALIZED CLOUD SYSTEMS: <i>Daniel J. Dean, Hiep Nguyen, Xiaohui Gu</i>	
	12:00 Lunch	12:00 Lunch		
	1:30 Session: Performance and Resource Management WHEN AVERAGE IS NOT AVERAGE: LARGE RESPONSE TIME FLUCTUATIONS IN N-TIER SYSTEMS: <i>Qingyang Wang, Yasuhiko Kanemasa, Motoyuki Kawaba, Calton Pu</i> PROVISIONING MULTI-TIER CLOUD APPLICATIONS USING STATISTICAL BOUNDS ON SOJOURN TIME: <i>Uendra Sharma, Prashant Shenoy, Don Towsley</i> AUTOMATED PROFILING AND RESOURCE MANAGEMENT OF PIG PROGRAMS FOR MEETING SERVICE LEVEL OBJECTIVES: <i>Zhuoyao Zhang, Ludmila Cherkasova, Abhishek Verma, Boon Thau Loo</i> AROMA: AUTOMATED RESOURCE ALLOCATION AND CONFIGURATION OF MAPREDUCE ENVIRONMENT IN THE CLOUD: <i>Palden Lama, Xiaobo Zhou</i>	1:30 Session: Energy ADAPTIVE GREEN HOSTING: <i>Nan Deng, Christopher Stewart, Jaimie Kelley, Daniel Gmach, Martin Arlitt</i> DYNAMIC ENERGY-AWARE CAPACITY PROVISIONING FOR CLOUD COMPUTING ENVIRONMENTS: <i>Qi Zhang, Mohamed Faten Zhani, Shuo Zhang, Quanyan Zhu, Raouf Boutaba, Joseph L. Hellerstein</i>	12:00 Adjoin	
	3:30 Break			
	4:00 Short Papers I LOCOMOTION@LOCATION: WHEN THE RUBBER HITS THE ROAD: <i>Gerold Hoelzl, Marc Kurz, Alois Ferscha</i> AN AUTONOMIC RESOURCE PROVISIONING FRAMEWORK FOR MOBILE COMPUTING GRIDS: <i>Hariharasudhan Viswanathan, Eun Kyung Lee, Ivan Rodero, Dario Pompili</i> A SELF-TUNING SELF-OPTIMIZING APPROACH FOR AUTOMATED NETWORK ANOMALY DETECTION SYSTEMS: <i>Dennis Ippoliti, Xiaobo Zhou</i> EVENT CORRELATION FOR OPERATIONS MANAGEMENT OF LARGE SCALE IT SYSTEMS: <i>Chetan Gupta</i> POWERTRACER: TRACING REQUESTS IN MULTI-TIER SERVICES TO DIAGNOSE ENERGY INEFFICIENCY: <i>Gang Lu, Jianfeng Zhan, Haining Wang, Lin Yuan, Chuliang Weng</i>	2:30 Short Papers II VESPA: MULTI-LAYERED SELF-PROTECTION FOR CLOUD RESOURCES: <i>Aurélien Wailly, Marc Lacoste, Hervé Debar</i> USAGE PATTERNS IN MULTI-TENANT DATA CENTERS: A TEMPORAL PERSPECTIVE: <i>Robert Birke, Lydia Y. Chen, Evgenia Smirni</i> TOWARD FAST EVENTUAL CONSISTENCY WITH PERFORMANCE GUARANTEES: <i>Feng Yan, Alma Riska, Evgenia Smirni</i> OPTIMAL AUTOSCALING IN THE IAAS CLOUD: <i>Hamoun Ghanbari, Bradley Simmons, Marin Litoiu, Cornel Barna, Gabriel Iszlai</i>		
	6:00 Conference Dinner	3:30 Break		
		4:00 Poster and Demo Session		
		6:00 Conference Outing (tentative)		

Workshops: Feedback Computing 2012, Self-Aware Internet of Things 2012

Workshops: Management of Big Data Systems 2012, Federated Clouds 2012

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