

# Enterprise Computing Community - ECC 2010

## Enterprise Systems Construction and Infrastructure

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June 13 - 15, 2010

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Topics Covered	Comments
Large Scale Enterprise Systems Software Architecture <ul style="list-style-type: none"><li>–Operating Systems</li><li>–Applications</li><li>–Middleware</li><li>–Networking</li></ul>	
Large Scale Enterprise Systems Hardware Architecture <ul style="list-style-type: none"><li>–Processors, Memory, and Storages</li><li>–Peripheral Devices</li><li>–Communication and Clustering</li></ul>	
Enterprise Systems Infrastructure Development Life Cycle <ul style="list-style-type: none"><li>–SIDLC Model</li><li>–Validation and Verification</li></ul>	

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Topics Covered	Comments
Enterprise Systems Performance Evaluation and Improvement <ul style="list-style-type: none"><li>–Benchmark Testing</li><li>–Data Collection and Analysis</li></ul>	
Performance and Throughput Metrics <ul style="list-style-type: none"><li>–Criteria</li><li>–Measurement</li></ul>	
Enterprise Systems Programming and Administration <ul style="list-style-type: none"><li>–System Startup and Configuration</li><li>–System Software Installation/Implementation</li><li>–Workload Distribution and Tuning</li><li>–Troubleshooting and Debugging</li><li>–Account and Security</li></ul>	

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Topics Covered	Comments
Backup and Recovering <ul style="list-style-type: none"><li>–Planning</li><li>–Software Structure</li><li>–Hardware Redundancy</li></ul>	
Techniques to Insure Continuous Availability	
Enterprise Systems Programming and Administration	
Virtualization <ul style="list-style-type: none"><li>–System Partitioning</li><li>–Virtual Marching Approach<ul style="list-style-type: none"><li>•System VM</li><li>•Process VM</li></ul></li></ul>	

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Topics Covered	Comments
Hardware and Software Security <ul style="list-style-type: none"><li>–System Resource Protection</li><li>–Network Security</li><li>–Security Policy and Enforcement</li><li>–Encryptions</li></ul>	
Intrusion Detection	
Error Detection and Correction	
System Scalability <ul style="list-style-type: none"><li>–Vertical Scaling (single processor to multi-processor)</li><li>–Scaling Down</li></ul>	

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Topics Covered	Comments
Cluster Architecture <ul style="list-style-type: none"><li>–Clustering Techniques</li><li>–Workload Distribution</li></ul>	
Connectivity Between Software and Hardware Components <ul style="list-style-type: none"><li>–Inter (External) Connections</li><li>–Intra (Internal) Connections</li></ul>	
Enterprise Systems Networking <ul style="list-style-type: none"><li>–Network Reference Models</li><li>–Protocols</li><li>–Process Communication Mechanisms</li><li>–Enterprise System Clustering</li></ul>	

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<b>Additional Topics that should be covered ?</b>	<b>Comments</b>