

IMS Researcher Profile

Institution: Missouri S&T

Name: Reghu Anguswamy

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Expertise: Diagnostic and prognostic schemes for multi-input multi-output systems (e.g. pneumatic systems), embedded systems, wireless networks

Current Research Activities: Wireless networks

Thesis Topics: In-process Diagnostics and Wireless Sensor Network Routing protocol for Network Enabled Environments

Project 1: Multivariable Prognostics Schemes

- MTS (Mahalanobis-Taguchi Strategy) for multi-actuator based pneumatic systems

Skills: C, C++, Visual Basic, Visual C++ , Ns-2, OPNET, MATLAB, Microsoft Certified Professional (MCP) in C#.NET, Windows programming, 2005, hardware-software co-design for embedded systems

Previous Background:

- Graduate Research Assistant – University of Missouri – Rolla, *Jan'06 - Current*
- Software Engineer - Infosys Technologies Ltd. *Aug '04 – Dec '05*

Publications:

- **In-Process Quality Monitoring of Fastening Operations**, *R. Anguswamy*, J. Birt, Drs. Jagannathan Sarangapani, and C. Saygin, International Journal for Manufacturing Research, Special Issue, 2008 (Under review)
- **In-Process Quality Monitoring of Fastening Operations Using Embedded Mobile Wireless Sensor Network-based Pull-type Tools**, *R. Anguswamy*, J. Birt, Drs. Jagannathan Sarangapani and C. Saygin, 2007 ASME International Mechanical Engineering Congress and Exposition, Seattle, Washington, November 10-16, 2007
- **Pull-Type Tool Health Monitoring and Product Quality Verification using Wireless Sensor Networks**, J.W. Fonda, *R. Anguswamy*, M. Zawodniok, J.Birt, Jagannathan Sarangapani, and C. Saygin, ISHM'06, Cincinnati, August 2006