

CURRICULUM VITAE

Name and Academic Rank

John Jeffrey Prevost
Assistant Professor
Electrical and Computer Engineering
The University of Texas at San Antonio
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Degrees with fields, institution, and date

Ph. D.	Electrical Engineering	Univ. of Texas at San Antonio, 2013
M. S.	Electrical Engineering	Univ. of Texas at San Antonio, 2011
B. S.	Electrical Engineering	Univ. of Texas at San Antonio, 2009
B. S.	Economics	Texas A&M Univ. College Station, 1990

Professional Chronology

Assistant Professor, Electrical and Computer Engineering The University of Texas at San Antonio	2016-Present
Chief Technical Officer Emeritus Assessment Technologies, San Antonio, TX	2014-Present
Assistant Professor of Research, Electrical and Computer Engineering The University of Texas at San Antonio	2014-2016
Chief Technical Officer Assessment Technologies, San Antonio, TX	2011-2014
Director of Product Development Injury Sciences, San Antonio, TX	2000-2011
Director of Information Systems PTM Consulting, San Antonio, TX	1993-2000
General Partner Tutors Unlimited, College Station, TX	1986-1993

Journal Publications (* indicates student)

1. S. M. A. Karim*, **J. J. Prevost**, P. Rad, “Efficient Real-Time Mobile Computation in the Cloud using Containers”, International Journal of Computing and Digital Systems, Vol. 5, Issue 1, ISSN 2210-142X, January. 2016.
2. P.Rad*, M. Jamshidi, G. Berman*, **J. J. Prevost**, “A Software Defined Networking Architecture for Software Defined Clouds”, International Journal of Complex Systems – Computing, Sensing and Control, Vol. 3, Issue 2, ISSN 2334-4830, December 2015.

Book Chapters

1. **J. J. Prevost**, K. Nagothu*, B. Kelly and M. Jamshidi , “Energy Aware Load Prediction for Cloud Data Centers”, Control and Systems Engineering, A Report on Four Decades of Contributions, Springer, 2015.

Peer Reviewed Conference Papers

1. B. Kelley, **J. J. Prevost**, P. Rad, A. Fatima*, “Securing Cloud Containers using Quantum Networking Channels”, Proc. Smart Cloud 2016, New York, November 2016.
2. A. Sahba*, **J. J. Prevost**, “Hypercube based clusters in Cloud Computing”, Proc. World Automation Congress (WAC) 2016, San Juan, Puerto Rico, July 31-August 4, 2016.
3. J. Benson*, **J. J. Prevost**, P. Rad, “Survey of Automated Software Deployment for Computational and Engineering Research”, Proc. IEEE Systems Conference (SysCon) 2016, Orlando, Fl., April 18-24, 2016.
4. S.M.A. Karim*, and **J. J. Prevost**, “Efficient Mobile Computing using the Cloud”, Proceedings of the 2015 3rd International Conference on Future Internet of Things and Cloud, Rome, Italy, August 24-26 2015.
5. M. Muppidi*, P. Benavidez*, **J. J. Prevost**, P. Najafirad*, and M. Jamshidi , “Cloud-Based Realtime Robotic Visual SLAM”, Proceedings of the 2015 IEEE International Systems Conference, Vancouver, 2015.
6. **J. J Prevost**, K. Nagothu*, B. Kelley, and M. Jamshidi, “Optimal Calculation Overhead for Energy Efficient Cloud Workload Prediction”, Proc. World Automation Congress (WAC) 2014, Big Island, Hawaii, August 3-7, 2014.
7. P. Rad*, V. Lindberg*, **J. J. Prevost**, W. Zhang, M. Jamshidi, “ZeroVM: Secure distributed processing for data analytics”, Proc. World Automation Congress (WAC) 2014, Big Island, Hawaii, August 3-7, 2014.
8. **J. J. Prevost**, K. Nagothu*, B. Kelley, and M. Jamshidi, “Optimal update frequency model for physical machine state change and virtual machine placement in the cloud”, Proc. 2013 8th International Conference on System of Systems Engineering (SoSE), Maui, Hawaii, June 2-6, 2013, EDAS # 1569744689, Best Paper Awardee.

9. **J. J. Prevost**, K. Nagothu*, B. Kelley, and M. Jamshidi, “Load Prediction Algorithm for Multi-Tenant Virtual Machine Environments”, Proc. World Automation Congress (WAC) 2012, Puerto Vallarta, Mexico, Paper EDS # 1569572457, Best Paper Awardee.
10. K. Nagothu*, B. Kelley, **J. J. Prevost**, M. Jamshidi, M., “On prediction to dynamically assign heterogeneous microprocessors to the minimum joint power state to achieve Ultra Low Power Cloud Computing”, Conference Record of the Forty Fourth Asilomar Conference on Signals, Systems and Computers (ASILOMAR), paper # 6542221049, Pacific Grove, California, November 2011.
11. **J. J. Prevost**, K. Nagothu*, B. Kelley, and M. Jamshidi, “Prediction of cloud data center networks loads using stochastic and neural models”, Proc. 2011 6th International Conference on System of Systems Engineering (SoSE), paper #1569453089, Albuquerque, NM, June 27-31, 2011.
12. K. Nagothu*, B. Kelley, **J. J. Prevost**, M. Jamshidi, “Ultra low energy cloud computing using adaptive load prediction”, Proc. World Automation Congress (WAC), Kobe, Japan, September 2010.
13. T. Shaneyfelt*, K. Nagothu*, K., **J. J. Prevost**, A. Kumar*, S. S. M. Ghazi*, M. Jamshidi, “Control and simulation of robotic swarms in heterogeneous environments”, Proc. IEEE SMC Conference, Singapore, October 13-15, pp. 1314 – 1319, 2010.
14. **J. J. Prevost**, M. A. Joordens, and M. Jamshidi, M., “Simulation of underwater robots using MS Robot Studio©”, Proc. IEEE System of Systems Engineering International Conference, Monterrey, California, June 2-4, 2008, pp. 1-5.

Books Edited

1. A. El-Osery, **J. Prevost**, “Control Systems Engineering, A Report on Four Decades of Contributions”, Springer, 2015.

Scientific and Professional Societies

Eta Kappa Nu
 Tau Beta Pi
 Institute of Electrical and Electronic Engineers (IEEE)

Academic Honor Societies

Alpha Chi
 Golden Key
 Phi Kappa Phi
 Who’s Who in American Universities

Honors and Awards

Best Paper Award at 2013 IEEE SoSE Conference in Maui, HI

Best Paper Award at 2012 WAC Conference in Puerto Vallarta, MX

Magna Cum Laude in 2009 for BS in Electrical Engineering at UTSA

Funded Grants

Center of Excellence: Center for Testing, Evaluation and Control of Heterogeneous Large-scale Autonomous Vehicles, AFRL, \$266,200, 4/9/2015-10/1/2020.

Pending Grants

CREST Center for Security and Privacy Enhanced Cloud Computing (C-SPECC), NSF, \$5,000,000.

Graduate Advisors

Mo Jamshidi, The University of Texas at San Antonio