

Published Articles Coauthored by UAH COE Faculty January ~ July 2017

- Doustmohammadi, M., Anderson, M.D., Kesaveraddy, S., & Jones, S. "Examining Model Accuracy: How Well did We do in the 1990's Predicting 2015," International Journal of Traffic and Transportation Engineering/Vol. 6. No. 1, 2017. pp. 121.
- Khan, T., Anderson, M.D. "Development and Statistical Validation of a Simplified Logistic Land Use Change Model," International Journal for Traffic and Transportation Engineering, Vol 6. No. 4. 2017. pp. 390-405.
- Ahmadi, A. and Wu, T., "Inactivation of E. coli Using a Novel TiQ Nanotube Electrode," Environmental Science: Water Research & Technology, 3, 53-54, 2017
- Al-Hamdan, A. Z., AlBashaireh, R. N., Hamdan, M., Crosson, W. L. "The association of remotely sensed outdoor fine particulate matter with cancer incidence of respiratory systems in the USA," Journal of Environmental Science and Health, Part A-Toxic/Hazardous Substances and Environmental Engineering, 52(6), pp. 547-554.
- Alluri, P., A. Gan, and K. Haleem. (2017). "Safety Impacts of Converting Two-Left Turn Lanes to Three-Left Turn Lanes," Design and Performance of Modular 3-D Printed Solid Propellant Rocket Airframes [Special Collection: Feature Papers in Aerospace]. Space, 4(2): 17.
- E., Bahumanyam, P., Katragadda, R., & Messimer, S. "Automated Assembly of Discrete Components Using Fused Deposition Modeling,"

Dinc, S., Fahimi F. and A.Ramazan, "Mirage: an O(n) time analytical solution to 3D camera pose estimation with multicamera support," *Robotica*, p19, February 16, 2017.

Olatoyinbo, S. F., Rani, S., Frendi, A. "Large Eddy Simulation of Decaying Isotropic Turbulence using the Flowfield Dependent Variation Method," *International Journal of Numerical Methods for Heat & Fluid Flow* 27(1) pp. 235262.

Zhang, J. A., Shotorban, B., and Zhang, S., ``Numerical experiment of aeroelasticity for a rocket nozzle," *Journal of Aerospace Engineering* 30(5)

C. Anand, B. Shotorban, S. Mahalingam, S. McAllister, and D. R. Weise, "



- A. Tareki, R. G. Lindquist, W. Kim, J. Guo, M. P. Hokmabadi, E. Rivera, P. Kung, S. M. Kim, and M. Heimbeck, "Terahertz transparent electrode using tripod metal aperture array," IEEE Transactions on Terahertz Science and Technology, pp. 8085 (2017).
- Singh, A., Joiner, L. L. (2017) Downlink Coverage Probability in Multi-Tier Rician Fading HetNets," International Journal of Wireless Communications and Network Technologies (IJWCNT) (2017)
- D. C. Schwebel, W. D. Evans, S. E. Hoeffler, B. L. Marlenga, S. P. Nguyen, E. Jovanov, D. O. Meltzer, B. J. Sherees, "Unintentional Child Poisoning Risk: A Review of Causal Factors and Prevention Studies," Children's Health Care, 46, pp. 109-30, 2017.
- H. Shen, W. D. Pan, and D. Wu, "Predictive Lossless Compression of Regions of Interest in Hyperspectral Images with Non-overlapping Data Regions," IEEE Transactions on Geoscience and Remote Sensing, 55(1), Jan. 2017.
- R. Smith and Z. A. Pour, "Dual Frequency Millimeter Wave Illumination of a Detector Diode," IEEE Microwave and Wireless Components Letters, 27(3), pp. 308-310, March 2017.
- E. M. Willis, J. I. Minow, Z. A. Pour, K. Nishikawa, and C. Swenson, "Transient ISS Floating Potential Variations attributed to High Voltage Solar Array Operations," Journal of Spacecraft and Rockets, accepted 2017.
- R. Smith and Z. A. Pour, "Difference Frequency Response of a Detector Diode under Dual Frequency Illumination," IEEE Transactions on Microwave Technology and Techniques, 10.1109/TMTT.2017.2675424, accepted on Feb 2017.
- C. B. Panathula, A. Rosales, Y. Shtessel, and M. Basin, "Chattering Analysis of Uniform Time Convergent Sliding Mode Control," Journal of the Franklin Institute, 354(4), March 2017, pp. 1907-1921.
- Rosales, A., Shtessel, Y., Fridman, L., Analysis and design of systems driven by finite convergent controllers: practical stability approach, International Journal of Control, in press, 2017.
- Y. B. Shtessel, J. A. Moreno Pérez, L. Fridman, "Twisting Sliding Mode Control with Adaptation: Lyapunov Design, Methodology and Application," Automatica, 75, January 2017, pp. 229-235.
- "Hybrid-impulsive second-order sliding mode control: Lyapunov approach," International Journal of Robust and Nonlinear Control, 27(7), 1064-1093, 2017.
- Basin, M., Panathula, C. B., and Shtessel, M., Multivariable continuous fixed-time second-order sliding

J. He and R. S. Gorur, "Flashover of insulators in a wet environment," IEEE Transactions on Electrical Insulation, 2016, Vol. 51, No. 2, pp. 1038-1044, 2017.

L. Cui, R. S. Gorur, and D. Chian, "Evaluating flashover performance of insulators under fire fighting conditions," IEEE Transactions on Electrical Insulation, 2016, Vol. 51, No. 2, pp. 1038-1044, 2017.