

Professional Experience

Assistant Professor, (Aug 2015 - Present) / Tj (C /6 [3 0S)-2EMC / Tf47.98 - Tc 0.002 Tw

Publications

(A) Patents

1- Horwitz, J., Kim C., Bashash, S., Olson,,Akella, R. D., and Awad, Q“

- 18- SalehiKhojin A., Bashash S., JaliliN., and Berger R., "Nanomechanical cantilever Active Probes for ultrasmall mass detection", Journal of Applied Physics, 105, pp. 013506-135068, 2009.
- 19- Bashash Sand Jalili N., "Robust adaptive control of coupled parallel piezo-flexural nanopositioning systems" IEEE/ASME Transactions on Mechatronics, 14, pp. 1120, 2008.
- 20- SalehiKhojin A., Bashash S. and Jalili N., "Modeling and experimental vibration analysis of nanomechanical cantilever active probes" Journal of Micromechanics and Microengineering, 18, pp. 085008, 2008.
- 21- Bashash S.and Jalili N., "A polynomial-based linear mapping strategy for compensation of hysteresis in piezoelectric actuators" ASME Transactions, Journal of Dynamic Systems, Measurements and Control, 130, pp. 031008 (1-10), 2008.
- 22- Bashash S.and Jalili N., "Robust multiple frequency trajectory tracking control of piezoelectrically driven micro/nano positioning systems," IEEE Transactions on Control Systems Technology, 15, pp. 867-878, 2007.
- 23- Bashash S. and Jalili N., "Intelligent rule based hysteresis in feedforward trajectory control of piezoelectrically driven nanostagers," Journal of Micromechanics and Microengineering, 17, pp.342-349, 2007.
- 24- Bashash S.and Jalili N., "Underlying memory dominant nature of hysteresis in piezoelectric materials," Journal of Applied Physics, 100, pp. 014103, 2006.

(B) Conference Papers and Presentations

- 25- KumbhaniN. andBashash S., "A supervisory lateral slip prevention controller for autonomous vehicles", Proceedings of 2019 ASME Dynamic Systems and Control Conference, Park City, UT, Oct. 2019.
- 26- Bashash S.

- 34- Bashash S., "Cost optimal coordination of interacting household appliances under varying electricity price signals," Proceedings of the 2016 ASME Dynamic Systems and Control Conference, Minneapolis, MN, Oct 2016.
- 35- Bashash S.

- 50- Salehi-Khojin A., Bashash S. and Jalili N., "Modeling and experimental vibration analysis of Nanomechanical cantilever active probes", Proceedings of 1st ASME Dynamic Systems and Control Conference, Oct 2008, Ann Arbor, MI.
- 51- Bashash S., Salehi-khojin A., and Jalili N., "Forced vibration analysis of flexible Bernoulli beams with geometrical discontinuities," Proc of 2008 American Control Conference, Jun 2008, Seattle, WA
- 52- Bashash S. and Jalili N., "Adaptive robust control strategy for coupled parametric piezoflexural micro and nano-positioning stages," Proceedings of 2007 International Mechanical Engineering Congress and Exposition, Nov 2007, Seattle, WA
- 53- Bashash S., Ayalew B., and Jalili N., "μ-synthesis control of systems with unknown hysteresis nonlinearity and parametric uncertainties," Proceedings of 2007 ASME International Design Engineering Technical Conferences, Sep 2007, Las Vegas, NV.
- 54- Bashash S. and Jalili N., "Feedforward multiple frequency trajectory tracking control of piezoelectrically driven systems," Proceedings of 2007 American Control Conference, Jun 2007, New York City, NY.
- 55- Bashash S.

