

1. Name: Jiong Tang, Professor and Co-Director

2. Education:

- Ph.D., Mechanical Engineering, Pennsylvania State University, PA, 2001
- M.S., Applied Mechanics, Fudan University, China, 1992
- B.S., Applied Mechanics, Fudan University, China, 1989

3. Academic Experience:

University of Connecticut (full time)

May 2016 – present: Co-Director, Management and Engineering for Manufacturing Program

August 2013 – present: Professor of Mechanical Engineering

August 2008 – August 2013: Associate Professor of Mechanical Engineering

August 2002 – August 2008: Assistant Professor of Mechanical Engineering

Fudan University, Shanghai, China (full time)

August 1992 – July 1995: Lecturer of Applied Mechanics

4. Non-academic Experience:

June 2001 – July 2002, Research Engineer, General Electric Global Research Center, Niskayuna, NY.

5. Certification or Professional Registrations: None

6. Current Membership in Professional Organizations:

Member of

- American Society of Mechanical Engineers
- Institute of Electrical and Electronics Engineers
- Society of Manufacturing Engineers

7. Honors and Awards:

- Fellow, American Society of Mechanical Engineers
- Elected member, Connecticut Academy of Science and Engineering
- Distinguished Engineer of the Year, ASME Hartford Chapter, 2017

8. Service Activities:

Journal editorships:

- IEEE/ASME Transactions on Mechatronics, Technical Editor, 2017 – present
- ASME Journal of Vibration and Acoustics, Associate Editor, 2008 – 2015
- ASME Journal of Dynamic Systems, Measurement, and Control, Associate Editor, 2011 – 2014
- IEEE Transactions on Instrumentation and Measurement, Associate Editor, 2009 – 2012

Major conference organizing activities:

- General Chair, 2020 ASME Dynamic Systems and Control Conference
- Program Chair, 2020 International Symposium on Flexible Automation
- General Co-Chair, 2019 ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE)

- Program Chair, 2016 ASME Dynamic Systems and Control Conference

Other activities:

- Frequently serving as symposium/session organizers for conferences including ASME IDETC, ASME SMASIS, ASME DSCC, ASME IDETC since 2002
- Serving as reviewer for over 50 scientific journals

9. Selected Recent Publications: (from more than 200 journal and conference papers)

- Yuan, Y., Chen, X., and Tang J., “Multivariable robust blade pitch control to reject periodic loads on wind turbines,” *Renewable Energy*, V146, 329-341, 2020.
- Cao, P., Fan, Z., Gao, R., and Tang, J., “Harnessing multi-objective simulated annealing toward configuration optimization within compact space for additive manufacturing,” *Robotics and Computer-Integrated Manufacturing*, V57, pp29-45, 2019.
- Liu, Y., Zhou, S., Chen, Y., and Tang, J., “Measurements selection for bias reduction in structural damage identification,” *ASME Journal of Dynamic Systems, Measurement, and Control*, V141(3), 031003, 2019.
- Cao, P., Fan, Z., Gao, R., and Tang, J., “Design for additive manufacturing: optimization of piping network in compact system with enhanced path-finding approach,” *ASME Journal of Manufacturing Science and Engineering*, V140(8), 081013, 2018.
- Cao, P., Zhang, S., and Tang, J., “Preprocessing-free gear fault diagnosis using small datasets with deep convolutional neural network-based transfer learning,” *IEEE Access*, V6(1), pp26241-26253, 2018.
- Yuan, Y., Chen, X., and Tang, J., “Disturbance observer based pitch control of wind turbines for enhanced speed regulation,” *ASME Journal of Dynamic Systems, Measurement, and Control*, V139(7), 071006, 2017.
- Yoo, D., Lee, I., and Tang, J., “Reliability-oriented optimal design of intentional mistuning for bladed disk with random and interval uncertainties,” *Engineering Optimization*, V49(5), pp796-814, 2017.
- Zhang, S., and Tang, J., “System-level modeling and parametric identification of electric impact wrench,” *ASME Journal of Manufacturing Science and Engineering*, V138(11), 111010, 2016.
- Zhou, K., Liang, G., and Tang, J., “Component mode synthesis order-reduction for dynamic analysis of structure modeled with NURBS finite element,” *ASME Journal of Vibration and Acoustics*, V138(2), 021016, 2016.
- Shuai, Q., and Tang, J., “Direct compensation of lift-off oscillation effect in magnetic impedance-based damage detection,” *Journal of Intelligent Material Systems and Structures*, V26(17), pp2351-2361, 2015.

10. Recent Professional Development Activities:

Attend annually conferences including:

- ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE)
- ASME Dynamic Systems and Control Conference
- SPIE Smart Structures + Nondestructive Evaluation Conference

Conduct funded research sponsored by various federal agencies and local industries, with total funding exceeding \$20M so far.