YUEQING LI

Assistant Professor   Phone: 409-880-7500
Department of Industrial Engineering   Fax: 409-880-8121
Lamar University, Beaumont, TX 77710   Email: yueqing.li@lamar.edu

---

Research Interests

Human Factors & Ergonomics

- Human factors & ergonomics
- Occupational safety
- Safety engineering

Human-computer interaction (HCI)

- Intelligent user interface
- Haptic-user interface
- User behavior modeling

Neuroergonomics

- Brain-computer interface (BCI)
- Neurocognitive processing
- Data mining & algorithm design

Education

North Carolina State University, Department of Industrial and Systems Engineering   Raleigh, NC

Ph. D. in Industrial Engineering/minor in Statistics (GPA: 3.83/4.0)   *Aug 2014*

*Dissertation: **Evaluation of collaborative brain-computer interface (BCI) for people with severe motor disabilities***

*Advisor: Prof. **Chang S. Nam***

University of Arkansas, Department of Industrial Engineering   Fayetteville, AR

M. S. in Industrial Engineering (GPA: 3.83/4.0)   *Aug 2009*

*Dissertation: **A P300-based brain-computer interface (BCI): effects of luminosity contrast, stimulus duration, interface type & screen size***

*Advisor: Prof. **Chang S. Nam***

Nanjing University of Aeronautics and Astronautics,

School of Economics and Management   **Nanjing, China**

M. S. in Economics   *Mar 2006*

Zhengzhou University, School of Physics Engineering   **Zhengzhou, China**

B. S. in Electronics Engineering   *Jul 2000*

Honors

Eric Malstrom Endowed Memorial Scholarship, *Department of Industrial Engineering, University of Arkansas (2009-2010).* This scholarship is awarded to the outstanding graduate students with exceptional academic promise in the Department of IE, University of Arkansas.

Outstanding Graduate Award, *Nanjing University of Aeronautics and Astronautics (2004-2005)*

Outstanding Teacher Award, *Henan Polytechnic University (2002-2003).* This award is given to the most excellent teacher with exceptional teaching and is the highest level award in Henan Polytechnic University.

Renmin Scholarship, *Zhengzhou University (1996-2000)*

Excellent Student Award, *Zhengzhou University (1996-1998)*

Peer-Reviewed Journal Publications

In Press

J1. **Li, Y.**, & Nam, C.S. (2016) Evaluation of collaborative brain-computer interface for people with motor disabilities. IEEE CIM (in print)

J2. Nam, C.S., Moore, M., Choi, I., & **Li, Y.** (2015). Designing Better, Cost-Effective Brain-Computer Interfaces. *Ergonomics in Design: The Quarterly of Human Factors Applications, October,* 13-19.

J3. **Li, Y.**, Jeon, W., & Nam, C.S. (2015). Navigation by vibration: effects of vibrotactile feedback on a navigation task. *International Journal of Industrial Ergonomics*, 46, 76-84.

J4. **Li, Y**., Bahn, S., Nam, C.S., & Lee, J. (2014). Effects of luminosity contrast and stimulus duration on user performance and preference in a P300-based brain-computer interface (BCI). *International Journal of Human-Computer Interaction*, 30, 151-163.

J5. Nam, C.S., **Li, Y**., Yamaguchi, T., & Smith-Jackson, T.L. (2012). Haptic user interface for the visually impaired: implications for haptically enhanced science learning systems. *International Journal of Human-Computer Interaction*, *28*, 784-798.

J6. **Li, Y.**, Nam, C. S., Shadden, B. B., & Johnson, S. L. (2011). A P300-Based Brain-Computer Interface (BCI): Effects of Interface Type and Screen Size. *International Journal of Human-Computer Interaction*, *27*, 52-68.

J7. Nam, C. S., **Li, Y.**, & Johnson, S. (2010). Evaluation of P300-Based Brain-Computer Interface (BCI) in Real-World Contexts. *International Journal of Human-Computer Interaction, 26*, 621-637.

J8. Wang, Y., Dang, Y., **Li**, Y, & Liu, S. (2010). An approach to increase prediction precision of GM(1,1) model based on optimization of the initial condition. *Expert Systems with Applications, 37*, 5640-5644.

J9. Nam, C. S., Jeon, Y., **Li, Y.**, Kim, Y-J., & Yoon, H. (2009). Usability of the P300 Speller: Towards a More Sustainable Brain-Computer Interface. *eMinds: International Journal on Human-Computer Interaction, 1*, 111-125.

J10. Nam, C. S., Johnson, S., **Li, Y.**, & Seong, Y. (2009). Evaluation of Human-Agent User Interfaces in Multi-Agent Systems. *International Journal of Industrial Ergonomics, 39*, 192-201.

J11. Wang, Y., Dang, Y., **Li, Y.**, & Liu, S. (2009). A new method to improve prediction precision of GM (1, 1) model. *The Journal of Grey System, 21*, 301-308.

In Preparation

J12. **Li, Y.**, Nam, C.S., & Johnson, S. Markov Chain based haptic user behavior analysis: implications for haptically enhanced science learning systems. 75% complete.

J13. **Li**, **Y.**, & Nam, C.S. Boosting support vector machine (BSVM): a new algorithm to improve EEG classification. 50% complete.

J14. **Li, Y.**, & Nam, C.S. Effect of LED frequency and color: towards a user-specific SSVEP-based brain-computer interface (BCI). 60% complete.

Conference Presentations and Publications

C1. Ilori, A., **Li, Y.**, Mahesh, V., and Craig, B. (2016). Effect of position: An ergonomics evaluation of police wearable equipment. 7th International Conference on Applied Human Factors and Ergonomics, Orlando, Florida, July 2016.

C2. Mahesh, V., **Li, Y.**, & Craig, B. (2016). Evaluation of flooring on comfort and fatigue in trayline duties. IIE Annual Conference, Anaheim, California, May 2016.

C3. **Li, Y.**, & Nam, C.S. (2015). A collaborative brain-computer interface (BCI) for ALS patients. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting.*

C4. Jeon, W., **Li, Y.**, Bahn, S., & Nam, C.S. (2013). Assessing the effectiveness of vibrotactile feedback on a 2D navigation task. In M. Kurosu (Ed.): *Human-Computer Interaction*, Part IV, HCII 2013, LNCS 8007, 594-600.

C5. **Li, Y.**, Woo, J., & Nam, C.S. (2012). A preliminary research on P300-based BCI application for people with motor disabilities. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting, 56*, 1049-1053.

C6. Johnson, S., **Li, Y.**, Nam, C.S. & Yamaguchi, T. (2011). Analyzing user behavior within a haptic system. In J.A. Jacko (Ed.): *Human-Computer Interaction*, Part II, HCII 2011, LNCS 6762, 62-70.

C7. **Li, Y.**, Johnson, S., & Nam, C.S. (2011). Haptically enhanced user interface to support science learning of visually impaired. In J.A. Jacko (Ed.): *Human-Computer Interaction*, Part IV, HCII 2011, LNCS 6764, 68-76.

C8. Johnson, S., Yamaguchi, T., **Li, Y.**, Kim, H.N., & Nam, C.S. (2010). Analyzing the behavior of users with visual impairments in a haptic learning application. In V. Rice (Eds): *Advances in understanding human performance neuroergonomics, human factors design, and special populations*, 675-683.

C9. Yamaguchi, T., Johnson, S., Kim, H.N., **Li, Y.**, Nam, C.S., & Smith-Jackson, T. L. (2009). Haptic Science Learning System for Students with Visual Impairments: A Preliminary Study. In C. Stephanidis (Ed.): *Universal Access in HCI*, HCII 2009, LNCS 5616, 157-166.

C10. **Li, Y.**, Nam, C.S., & Choo, Y-G. (2009). Towards optimizing P300 Speller matrix design while decreasing human error. In *Proceedings of 17th World Congress on Ergonomics*, Beijing, China.

C11. Nam, C.S., Johnson, S., & **Li, Y.** (2008). Environmental Noise and P300-Based Brain-Computer Interface (BCI). In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, *52*, 803-807.

C12. Johnson, S., **Li, Y.**, Jeon, Y., Kim, Y-J., & Nam, C.S. (2008). A P300-Based Brain-Computer Interface (BCI): Towards a Non-muscular Communication System for People with Neuromuscular Impairments. Arkansas Chapter of the Society for Neuroscience Annual Meeting, Little Rock, AR.

C13. Nam, C.S., Lyons, J., & **Li, Y.** (2007). Team Coordination and Collaboration within a Distributed Logistics Network. Annual Symposium on Applied Experimental Research. Fairfax, VA.

Teaching Experience

Lamar University   **Beaumont, TX**

Assistant Professor

INEN 5320 Statistics Decision Making (graduate), *Summer 2016*

INEN 5374 Human Factors Engineering (graduate), *Summer 2016*

ENGR 5301 ST Human-Computer Interaction (graduate), *Spring 2016*

INEN 5320 Statistics Decision Making (graduate), *Spring 2016*

INEN 4320 Statistics Decision Making (undergraduate), *Spring 2016*

INEN 2373 Engineering Economics (undergraduate), *Fall 2015*

INEN 5376 Occupational Ergonomics (graduate), *Fall 2015*

INEN 4376 Occupational Ergonomics (undergraduate), *Fall 2015*

INEN 5320 Statistics Decision Making (graduate), *Summer 2015*

INEN 5374 Human Factors Engineering (graduate), *Summer 2015*

ENGR 5301 ST Human-Computer Interaction (graduate), *Spring 2015*

INEN 5320 Statistics Decision Making (graduate), *Spring 2015*

INEN 4320 Statistics Decision Making (undergraduate), *Spring 2015*

ENGR 5301 ST Human Factors & Ergonomics (graduate), *Fall 2014*

ENGR 4301 ST Human Factors & Ergonomics (undergraduate), *Fall 2014*

ENGR 4301 ST Work Design II (undergraduate), *Fall 2014*

North Carolina State University   **Raleigh, NC**

Teaching Assistant

ISE 352 Work analysis and design (undergraduate), *Spring 2014*

ISE 352 Work analysis and design (undergraduate), *Fall 2013*

ISE 540 Human factors in systems design (graduate), *Spring 2013*

Henan Polytechnic University   **Jiaozuo, China**

Instructor

C programming (undergraduate), *Spring 2003*

Theory of transducer (undergraduate), *Fall 2002*

C programming (undergraduate), *Spring 2002*

Electronics theory (undergraduate), *Spring 2002*

Theory of transducer (undergraduate), *Fall 2001*

Electronics theory (undergraduate), *Spring 2001*

Special English (undergraduate), *Fall 2000*

Professional Experience

Dept. of Industrial Engineering, Lamar University **Beaumont, TX**

Assistant Professor (Aug 2014-present)

Dept. of Industrial & Systems Engineering, North Carolina State University **Raleigh, NC**

Research Assistant (Aug 2011-Jan 2013)

Dept. of Industrial Engineering, University of Arkansas **Fayetteville, AR**

Research Assistant (Aug 2006-Aug 2011)

Blue Light Corporation **Ningbo, China**

Marketing Manager (Feb 2006–Aug 2006)

Dept. of Electrical Engineering, Henan Polytechnic University **Jiaozuo, China**

Instructor, Electrical Engineering Department (Jul 2000–Sep 2003)

Services

Journal reviewer: Brain-Computer Interfaces (since 2014), IEEE Computational Intelligence Magazine (CIM) (since 2016), Virtual Reality Journal (since 2016), Journal of Clean Energy (since 2016), Springerplus (since 2016)

Conference Proceedings reviewer: HFES 2015, HFES 2016

Panels: NSF GRFP Panels (2016)

Affiliates

Human Factor and Ergonomics Society (HFES)

Institute of Industrial Engineers (IIE)

Traffic Operations for Texas Department of Transportation

TEES (Texas A&M Engineering Experiment Station)

Research Funding

PI, Startup Funding, Lamar University, $75,000, Aug 2014 – Aug 2017

PI, Lamar University Research Enhancement Grant, $5000, Sep 2015 – Aug 2016

PI, Port Management Center, Lamar University, $28,150, Aug 2016 – Aug 2018

Co-PI, Gill Foundation, 3D printing a prosthetic hand for a rehabilitation system, $2,100, Jul 2016 – Jun 2017

Graduate Advising

Doctor of Engineering Advisor

- Adedapo Ilori, Doctoral of Industrial Engineering, Lamar University, Since Sep 2015
- Guanlong Li, Doctoral of Industrial Engineering, Lamar University, Since Jan 2016

Master Thesis Advisor

- Anirudh Juloori, Master of Industrial Engineering, Lamar University, Since Sep 2015
- Saishyam Akurke, Master of Industrial Engineering, Lamar University, Since Sep 2015
- Vishnu Mahesh, Master of Industrial Engineering, Lamar University, Since Jan 2016
- Yalda Dabiran, Master of Industrial Engineering, Lamar University, Since May 2016

Doctor of Engineering Committee

- Mehmet Burak Cankaya, Doctoral of Industrial Engineering, Lamar University, Since April 2016

Doctoral of Philosophy Committee

- Yan Fang, Ph.D of Chemical Engineering, Lamar University, Since April 2016