

TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Young Sam Ryu

Title: Assistant Professor

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
PhD	2005	Virginia Tech	Industrial & Systems Engineering	Development of Usability Questionnaires for Electronic Mobile Products and Decision Making Methods
MS	1998	KAIST	Industrial Engineering	Perception of spatial layout in real and virtual worlds as a function of geometric field of view
BS	1996	KAIST	Industrial Engineering	

C. University Experience

Position	University	Dates
Assistant Professor	Texas State University-San Marcos	2005-Present
Instructor	Virginia Tech	2005 Spring

II. TEACHING

A. Teaching Honors and Awards:

B. Courses Taught:

IE 4360 Human Factors Design; IE 3330 Quality Engineering; IE 3320 Engineering Statistics; TECH 4380 Industrial Safety; TECH 4345 Methods Engineering and Ergonomics; TECH 3310 Industrial Design

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate):

D. Courses Prepared and Curriculum Developed:

IE 4360 Human Factors Design; IE 3330 Quality Engineering; IE 3320 Engineering Statistics;

E. Funded External Teaching Grants and Contracts:

F. Submitted, but not Funded, External Teaching Grants and Contracts:

G. Funded Internal Teaching Grants and Contracts:

H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

I. Other:

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

a. Scholarly Monographs:

b. Textbooks:

c. Edited Books:

d. Chapters in Books:

e. Creative books:

2. Articles

a. Refereed Journal Articles:

Pan, Y. H. and Ryu, Y. S. (2009). Insights for TV Interface from Mobile Interface. *Journal of Usability Studies*, 4(4), 166-177.

Komorgotsev O. V., Ryu, Y. S. and Koh, D. H. (2009). Quick Models for Saccade Amplitude Prediction. *Journal of Eye Movement Research*, 3(1):1, 1-13.

Ryu, Y. S., Babski-Reeves, K., Smith-Jackson, T. L., and Nussbaum, M. A. (2007). Decision Models for Comparative Usability Evaluation of Mobile Phones Using MPUQ. *Journal of Usability Studies*, 3(1), 24-40.

Ryu, Y. S. and Smith-Jackson, T. L. (2006). Reliability and Validity of Mobile Phone Usability Questionnaire (MPUQ). *Journal of Usability Studies*, 2(1), 39-53.

b. Non-refereed Articles:

3. Conference Proceedings

a. Refereed Conference Proceedings:

Komorgotsev, O. V., Ryu, Y. S., Koh, D. H., and Gowda, S. M. (2009). Instantaneous Saccade Driven Eye Gaze Interaction. In *Proceedings of International Conference on Advances in Computer Entertainment Technology 2009*. Athens, Greece.

Ryu, Y. S. (2009). Mobile Phone Usability Questionnaire and Automated Usability Evaluation. In *Proceedings of Human Computer Interaction International 2009*, San Diego.

Ryu, Y. S., Suh, T., and Dozier, S. (2009). Effects of Design Elements in Magazine Advertisements. In *Proceedings of Human Computer Interaction International 2009*, San Diego.

Kim, S. Cranor, B. and Ryu, Y. S. (2009). FATIGUE; Working under the Influence. In *Proceedings of XXIst Annual International Occupational Ergonomics and Safety Conference 2009*, Dallas.

Ryu, Y. S., Suh, T., and Kim, H. S. (2008). Revising the Mobile Phone Usability Questionnaire (MPUQ): An Item Response Theory Approach, In *proceedings of Society of Marketing Advances 2008*, Ft. Lauderdale.

Ryu, Y. S., Yi, H. C., Dozier, S., and Matthey, P.(2007). User Preferences of Numeric Entry Methods for Interactive Voice Response System (IVRS), In *proceedings of the 10th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems*, Seoul, Korea.

Ryu, Y. S., Babski-Reeves, K., Smith-Jackson, T. L., and Nussbaum, M. A. (2007). Enhancing the Mobile Phone Usability Questionnaire (MPUQ) with a Multi-criteria Decision Making Method, In *proceedings of HCI International 2007*, Beijing, China.

Ryu, Y. S., Nam, C. S., and Smith-Jackson, T. L. (2007). Web-based Instruction for High School Students:

Exploration of Individual and Cultural Learning Styles. *In proceedings of The Sixth IASTED International Conference on Web-based Education*, Chamonix, France.

- Ryu, Y. S., Lee, Y. S., Smith-Jackson, T. L., Nussbaum, M. A., and Tomioka, K. (2006). User-centered Design and Testing Methods for the Development of the Navigation Menu System for Mobile Phones. *In Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*, San Francisco.
- Ryu, Y. S. and Smith-Jackson, T. L. (2005). Usability Questionnaire Items for Mobile Products and Content Validity. *In Proceedings of HCI International 2005*, Las Vegas.
- Ryu, Y. S., Smith-Jackson, T. L., and Williges, R. C. (2005) Rapid Prototyping Methods to Develop Applications for Seniors. *In Proceedings of HCI International 2005*, Las Vegas.
- Lee, Y. S., Ryu, Y. S., Shin, D. J., Smith-Jackson, T. L., Nussbaum, M. A., and Tomioka, K. (2005). Usability testing with cultural groups in developing a cell phone navigation system. *In Proceedings of HCI International 2005*, Las Vegas.
- Ryu, Y.S., Yost, B., Convertino, G., Chen, J., and North, C. (2003). Exploring Cognitive Strategies for Integrating Multiple-View Visualizations. *In Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, Denver. (Won Best Student Paper Award by CEDM Technical Group of HFES 2003)
- Ryu, Y.S., Williges, R. C., Smith-Jackson, T. L., and Kwahk, J. (2002). Comparison of design requirements methods for monitoring eating patterns of seniors in a Smart House. *In Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting*, Baltimore.
- Convertino, G. Chen, J., Yost, B., Ryu, Y.S., and North, C. (2003). Exploring Context Switching and Cognition in Dual-View Coordinated Visualizations. *In Proceedings of the International Conference on Coordinated & Multiple Views in Exploratory Visualization*, London, UK.
- Bowman, D. A., Datey A., Ryu, Y. S., Farooq U., and Vasnaik, O. (2002). Empirical comparison of human behavior and performance with different display devices for virtual environments. *In Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting*, Baltimore.

b. Non-refereed:

4. Abstracts:

5. Reports:

- Williges, R. C., Smith-Jackson, T. L., Kwahk, J., Ryu, Y. S., and Narayan, S. (2002). Adaptive Telemedical Support Systems Used with Smart House Technology, *Technical Report ACE/HCIL-02-01*.
- Smith-Jackson, T., Williges, R. C., Kwahk, J., Capra, M., Durak, T., Nam, C. S., and Ryu, Y. S. (2001). User requirements specification for a prototype healthcare information website and an online assessment tool, *Technical Report ACE/HCIL-01-01*.
- Bowman, D. A., Datey A., Farooq, U., Ryu, Y. S., and Vasnaik, O. (2001). Empirical comparisons of virtual environment displays", *Technical Report TR-01-09*, Department of Computer Science, Virginia Tech.

6. Book Reviews:

7. Other:

B. Works not in Print

1. Papers Presented at Professional Meetings:

- Komorgotsev, O. V., Ryu, Y. S., Koh, D. H., and Gowda, S. M. (2009). Instantaneous Saccade Driven Eye Gaze Interaction. *In Proceedings of International Conference on Advances in Computer Entertainment Technology 2009*. Athens, Greece.

- Ryu, Y. S. (2009). Mobile Phone Usability Questionnaire and Automated Usability Evaluation. *In Proceedings of Human Computer Interaction International 2009*, San Diego.
- Ryu, Y. S., Suh, T., Dozier, S. (2009). Effects of Design Elements in Magazine Advertisements. *In Proceedings of Human Computer Interaction International 2009*, San Diego.
- Kim, S. Cranor, B. and Ryu, Y. S. (2009). FATIGUE; Working under the Influence. *In Proceedings of XXIst Annual International Occupational Ergonomics and Safety Conference 2009*, Dallas.
- Ryu, Y. S., Suh, T., and Kim, H. S. (2008). Revising the Mobile Phone Usability Questionnaire (MPUQ): An Item Response Theory Approach, *In proceedings of Society of Marketing Advances 2008*, Ft. Lauderdale.
- Ryu, Y. S., Yi, H. C., Dozier, S., and Matthey, P. (2007). User Preferences of Numeric Entry Methods for Interactive Voice Response System (IVRS), *In proceedings of the 10th IFAC/IFIP/IFORS/IEA Symposium on Analysis, Design, and Evaluation of Human-Machine Systems*, Seoul, Korea.
- Ryu, Y. S., Babski-Reeves, K., Smith-Jackson, T. L., and Nussbaum, M. A. (2007). Enhancing the Mobile Phone Usability Questionnaire (MPUQ) with a Multi-criteria Decision Making Method, *In proceedings of HCI International 2007*, Beijing, China.
- Ryu, Y. S., Nam, C. S., and Smith-Jackson, T. L. (2007). Web-based Instruction for High School Students: Exploration of Individual and Cultural Learning Styles. *In proceedings of The Sixth IASTED International Conference on Web-based Education*, Chamonix, France.
- Ryu, Y. S., Lee, Y. S., Smith-Jackson, T. L., Nussbaum, M. A., and Tomioka, K. (2006). User-centered Design and Testing Methods for the Development of the Navigation Menu System for Mobile Phones. *In Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting*, San Francisco.
- Ryu, Y. S. and Smith-Jackson, T. L. (2005). Usability Questionnaire Items for Mobile Products and Content Validity. *In Proceedings of HCI International 2005*, Las Vegas.
- Ryu, Y. S., Smith-Jackson, T. L., and Williges, R. C. (2005) Rapid Prototyping Methods to Develop Applications for Seniors. *In Proceedings of HCI International 2005*, Las Vegas.
- Lee, Y. S., Ryu, Y. S., Shin, D. J., Smith-Jackson, T. L., Nussbaum, M. A., and Tomioka, K. (2005). Usability testing with cultural groups in developing a cell phone navigation system. *In Proceedings of HCI International 2005*, Las Vegas.
- Ryu, Y.S., Yost, B., Convertino, G., Chen, J., and North, C. (2003). Exploring Cognitive Strategies for Integrating Multiple-View Visualizations. *In Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, Denver. (Won Best Student Paper Award by CEDM Technical Group of HFES 2003)
- Ryu, Y.S., Williges, R. C., Smith-Jackson, T. L., and Kwahk, J. (2002). Comparison of design requirements methods for monitoring eating patterns of seniors in a Smart House. *In Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting*, Baltimore.
- Convertino, G. Chen, J., Yost, B., Ryu, Y.S., and North, C. (2003). Exploring Context Switching and Cognition in Dual-View Coordinated Visualizations. *In Proceedings of the International Conference on Coordinated & Multiple Views in Exploratory Visualization*, London, UK.
- Bowman, D. A., Datey A., Ryu, Y. S., Farooq U., and Vasnaik, O. (2002). Empirical comparison of human behavior and performance with different display devices for virtual environments. *In Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting*, Baltimore.

2. Invited Talks, Lectures, & Presentations:

3. Consultancies:

4. Workshops:

5. Other:

C. Grants and Contracts

1. Funded External Grants and Contracts:

2. Submitted, but not Funded, External Grants and Contracts:

Southwest Region University Transportation Center FY 2007. "Effect of in-helmet headset and earplug use on motorcyclist's hearing capability to detect traffic sounds" – submitted as a sub-contractor of Texas Transportation Institute of Texas A&M University.

Norman Hackerman Advanced Research Program FY 2007. "Eye Movement Prediction in the Development and Evaluation of the Eye Guided Computer Interfaces" – submitted as Co-PI with Dr. Oleg Komogortsev of Computer Science Department at Texas State University-San Marcos.

NASA Research and Technology Development to Support Crew Health and Performance in Space Exploration Missions RFP 2008. "Development of a Space Environments Habitability Assessment Tool" – submitted as Co-PI with Dr. Pat Patterson at Texas Tech University.

Submitted a research proposal titled "Effect of Peripheral Laser Illumination on Eye Movement of Drivers" to the 2008 Air Force Summer Faculty Fellowship Program.

3. Funded Internal Grants and Contracts:

4. Submitted, but not Funded, Internal Grants and Contracts:

Research Enhancement Program 2008, "Usability Evaluation of Electronic Program Guide (EPG) in the US".
Research Enhancement Program 2007, "Brand Logo Configuration in Print Advertisement: An Eye Tracking Approach".

Research Enhancement Program 2006, "Determining Optimal Location of GPS-based Navigation Display for Motorcyclists".

Research Enhancement Program 2005, "Exploring Individual Learner Characteristics and the Design of Computer-mediated Communication to Enhance an Undergraduate Engineering Course"

D. Fellowships, Awards, Honors:

IV. SERVICE

A. University:

B. Departmental:

2008, Member of Search Committee for Electrical Engineering Assistant Professor

2008, Member of Search Committee for Industrial Engineering Assistant/Associate Professor

2007, Member of Search Committee for Electrical Engineering Assistant Professor

2007, Member of Search Committee for Industrial Engineering Associate Professor

C. Community:

D. Professional:

Ad-hoc Journal Reviewer, 2007 Computer Standards & Interfaces

E. Organizations

1. Honorary:

Alpha Pi Mu, the national honor society of industrial engineers, 2004-Present

2. Professional:

Texas Driver and Traffic Safety Education Association, 2006-Present

American Society for Engineering Education, 2005-Present
Human Factors and Ergonomics Society, 2002-Present

Please note: for all entries, list most recent items first.