Dong-Luong Dinh

Faculty of Information Technology

Nha Trang University

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CURRICULUM VITAE

Education

2010-Present	**Doctoral student**, Dept. of Computer Engineering, College of Electronics and Information, Kyung Hee University, South Korea.

- Thesis Title - A single depth silhouette-based 3D human pose recognition and applications
- Supervisor - Professor **Sungyoung Lee** and Professor **Tae-Seong Kim**

2007-2009	**Master of Information Processing and Communication**, Dept. of Computer Engineering, School of Information and Communication Technology, Ha Noi University of Science and Technology, Vietnam.

- Thesis Title - Good Quality Synthesis of Vietnamese Speech
- Supervisor - Professor **Trinh Van Loan**

1996-2001	**Bachelor of Information Technology**, Dept. of Computer Engineering, School of Information and Communication Technology, Ha Noi University of Science and Technology, Vietnam.

- Thesis Title - GMS based Vietnamese Speech Compression
- Supervisor - Professor **Trinh Van Loan**

Professional Qualifications

2001-Present

Work Experience
Lecturer, Faculty of Information Technology

Nha Trang University, Nha Trang City, Vietnam.

2010-2013

Joined projects
2010–present East-West Neo Medicinal u-Lifecare Research Center, Center for Sustainable Healthy Buildings and Smart TV of Samsung Electronics, Seoul, South Korea.

2010-2014

Applications have been developed
Real-time 3D Human Pose Recovery from a Single Depth Image and Hand gesture recognition for appliance control in smart homes.

2016-present

Logistic Project (DOU Company)

Subject and Research Interests

- Computer Architecture
- Speech Processing
- Machine Learning
- Depth Image Processing
- 3-D Human Pose Estimation
- Human Motion Analysis
- Human Computer Interface
- Brain Computer Interface

Publications

[1] Nguyen Anh Tu, **Dong-Luong Dinh**, Mostofa Rasel, Young-Koo Lee (2016), "Topic modeling and improvement of image representation for large-scale image retrieval," Information Sciences, 366(20):99-120

[2] **Dong-Luong Dinh**, Lee, S., & Kim, T. S. (2017). 3-D human pose recovery using nonrigid point set registration and body part tracking of depth data. *Multimedia Systems*, *23*(3), 369-380.

[3] **Dong-Luong Dinh**, Myeong-Jun Lim, Nguyen Duc Thang, Sungyoung Lee, and Tae-Seong Kim (2014), "Real-time 3D Human Pose Recovery from a Single Depth Image Using Principal Direction Analysis," Applied Intelligent, 41(2):473-486

[4] **Dong-Luong Dinh**, Sungyoung Lee, and Tae-Seong Kim, "Hand Number Gesture Recognition by Identifying Hand Parts of Depth Silhouettes," Multimedia Tools and Application, 75(2):1333-1348,2016

[5] Trinh Van Loan, **Dinh Dong Luong**, Pham Thi Kim Ngoan, Le Xuan Thanh, (2014) "Building Databases for Good Quality Vietnamese Synthesis", Jounal of Science & Technology, 101(2014) 179-181

[6] **Dong-Luong Dinh,** Pham Thi Kim Ngoan, Nguyen Duc Thang, Sungyoung Lee, and Tae-Seong Kim (2016), A Single Depth Silhouette-based Hand Gesture Recognition for Appliance Interfaces in Smart Home Environment , In Proc. of 6th International Conference on Biomedical Engineering (BME2016), pp. 341-144, June, 2016

[7] **Dong-Luong Dinh**, Sungyoung Lee, and Tae-Seong Kim, "Human Computer Interface Using the Recognized Finger Parts of Hand Depth Silhouette via Random Forests", In Proc. International Conference on Control, Automation and Systems (ICCAS), pp. 905-909, October, 2013.

[8] **Dong-Luong Dinh**, Hee-Sok Han, Hyun Jae Jeon, Sungyoung Lee and Tae-Seong Kim "Principal Direction Analysis-based Real-time 3D Human Pose Reconstruction from a Single Depth Image ", 4th International Symposium on Information and Communication Technology (SoICT), pp. 206-212, December, 2013.

[9] **Dong-Luong Dinh**, Young-Koo Lee, and Sungyoung Lee, " Automatic Human Emotion Recognition from Speech and Face Display - A New Approach," In Proc. KIISE, Vol.38 No.1B,pp. 231-234, 2011.

[10] **Dong-Luong Dinh**, Duc-Thang Nguyen, Sungyoung Lee, and Tae-Seong Kim, "Nonrigid Point Set Registration-based 3-D Human Pose Tracking from Depth Data," In Proc. of 5th International Conference on Biomedical Engineering (BME2014), pp. 475-479, June, 2014.

[11] **Dong-Luong Dinh**, Jeong Tai Kim, and Tae-Seong Kim, "Hand gesture recognition for appliance control in smart homes using the labeled hand parts in hand depth images" In International conference on Sustainability in Energy and Buildings (SEB2014), pp. 652-658, June, 2014.

[12] Ahmad Jalal, **Dong-Luong Dinh**, Jeong Tai Kim, and Tae-Seong Kim, "A real-Time Life Logging System via Depth Imaging-based Human Activity Recognition for Mart Home," SHB2013-10th International Symposium on Sustainable Healthy Buildings, Seoul, Korea, pp.393-401,7 June 2013.

[13] **Dong-Luong Dinh**, H. J. Jeon, S. B. Nam, Sungyoung Lee, and Tae-Seong Kim, " Hand Number Gesture Recognition by Identifying Hand Parts of Depth Silhouettes," In Proc. of Seoul International Conference on Applied Science and Engineering, pp. 98-104, August, 2014.

[14] Tran Le Giang, Nguyen Duc Thang, Vo Van Toi, Nguyen H. M. Tam, and **Dong-Luong Dinh**, "Evaluation of hemodynamic responses to visual tasks using functional near

infrared spectroscopy," In Proc. of 5th International Conference on Biomedical Engineering, pp. 569-573, June, 2014

[15] Tran Le Giang, Nguyen Duc Thang, Vo Van Toi, Nguyen H. M. Tam, and **Dong-Luong Dinh**, "Evaluation of hemodynamic responses to visual tasks using functional near infrared spectroscopy," In Proc. of 5th International Conference on Biomedical Engineering, pp. 569-573, June, 2014