HUONG-GIANG DOAN
PhD CANDIDATE IN COMPUTER VISION DEPARTMENT,
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PERSONAL INFORMATION

Name: Huong-Giang Doan	Gender: Female	Date of birth: May 22, 1980
Nationality: Vietnamese	Marital status: Married	Email: huonggiang.doan@mica.edu.vn

EDUCATION

- **2013-2017**: Ph.D. candidate in Automatic Control System – HUST
- **2004-2006**: Master in Instrumentation and Automatic Control System – HUST
- **1998-2003**: Bachelor of Engineer in Instrumentation and Industrial Informatics – HUST

RESEARCH EXPERIENCES

- **2013-2017: Ph.D. Candidate**, HUST, Hanoi, Vietnam
  Ph.D. title: *Dynamic hand gesture recognition using RGB-D images for Human Machine Interaction*
- **2016-Present: Main participant** in R&D Project funded by Hanoi University of Science and Technology,
  Project title: *Controlling home appliances using multimodal technologies (hand gestures, voice, mobile phone)*
- **2013-2014**: **Main participant** in R&D Project funded by Hanoi University of Science and Technology
  Project title: *Dynamic hand gesture recognition using Kinect sensor, application in controlling home appliances*
- **2008-2009**: **Main participant** in R&D Project funded by Vietnamese Ministry of Industry and Trade
  Project title: *Research, design, and development of an industrial X-ray source controlling system*
- **2007-2008**: **Main participant** in R&D Project funded by Vietnamese Ministry of Industry and Trade
  Project title: *Research, design, and development of a rice sorting system using IR camera*

WORKING EXPERIENCES

- **2009-2013**: Teaching in VNU University of Engineering and Technology (Sensors, Mechatronic System), Hanoi, Vietnam
- **2007-2012**: Development of image processing and control programs for industrial systems, Industrial Machinery and Instruments Holding (IMIHolding), Science and Technology Enterprise in Mechatronic Field, Hanoi, Vietnam
- **2005-2006**: Deployment of industrial management systems (concrete mixing plant, vehicle scales, and train scale), IMIHolding
- **2003-2004**: Design and production of batcher circuit using 8051 and FIC family microcontroller, IMIHolding

SKILLS

- **Programming languages:** Pascal, C/C++, C#, Matlab, Visual Basic, Visual C++
- **Database:** Access, SQL, MySQL
- **Operating Systems:** Microsoft Windows, Linux
- **Programming Libraries:** OpenCV, OpenGL, PCL
- **Languages:** Vietnamese (Native); English (Fluent)

PARTICIPATING IN CONFERENCES AND SUMMER SCHOOLS

- **Conferences:** FAIR, Thainguyen, Vietnam (Jul. 2014); FAIR, Hanoi, Vietnam (Jul. 2015); SoICT Hue, Vietnam (Dec. 2015), CIS-RAM, Cambodia (Jul. 2015); RIVF, Hanoi, Vietnam (Oct. 2016)
- **Summer schools:** Machine Learning and Statistics, VNUA, Hanoi, Vietnam (Jun. 2015); Statistics and probability distribution, MICA, HUST (Jul. 2015); Open Lectures on Machine Learning and Pattern Recognition, VNUA, Hanoi, Vietnam (Apr. 2016)

RESEARCH DISSEMINATION

- Demonstrations in 2015, 2016 Exhibition on Int. Sci. and Industrial Equipment (Techmar), Hanoi, Vietnam: *A Lamp and Fan controlling by hand gestures using the Kinect sensor (300 Audiences)*
- Seminars and Exhibitions on scientific and technological achievements of HUST, Hanoi, Vietnam, Sept. 2016
- Demonstration in AURA Workshop, Hanoi, Vietnam, Nov. 2016

SIGNIFICANT PUBLICATIONS

[1] H.-G. Doan, V.-T. Nguyen, H. Vu, and T.-H. Tran, "A combination of user-guide scheme and kernel descriptor on rgb-d data for robust and realtime hand posture recognition" Eng. Appl. Artif. Intell., vol. 49, pp. 103–113, Mar. 2016

[2] H.-G. Doan, H. Vu, and T.-H. Tran, "Phase Synchronization in a Manifold Space for Recognizing Dynamic Hand Gestures from Periodic Image Sequence" in Proc. of the 12th IEEE RIVF Int. Conf. on Comp. and Com. Tech., Vietnam, Nov. 7-9, 2016 (13/96 Long paper accepted)

[3] H.-G. Doan, H. Vu, and T.-H. Tran, "Are cyclical hand gestures better than non-cyclical pattern ones", International Conference on MVA2017, Nagoya, Japan, May 8-12, 2017 (accepted).
Full list of publications: http://www.mica.edu.vn/perso/Doan-Thi-Huong-Giang/