THAI BINH NGUYEN

binhnguyen.me binh@nii.ac.jp

EDUCATION

SOKENDAI (The Graduate University for Advanced Studies)	2016 - Present
Ph.D student in Computer Science	Japan
Supervisor: Prof. Atsuhiro Takasu	
Japan Advanced Institute of Science and Technology M.S in Computer Science	2006 - 2008 Japan
Hanoi University of Science and Technology B.S in Computer Science	1998 - 2003 Vietnam

RESEARCH EXPERIENCE

SOKENDAI (The Graduate University for Advanced Studies)

2016 - Present

Ph.D student in Computer Science

Japan

My research includes: Probabilistic modeling, Deep learning, Graph embedding with applications to recommender systems. In details, I am interested in modeling graphs of heterogeneous entities (e.g., users, items, texts, images) using probabilistic modeling and deep learning for building a recommender systems with large scale and sparse data.

Japan Advanced Institute of Science and Technology

2005 - 2008

Research student and Master student

Japan

I worked in a project of building a system that can automatically identify the cause of a network error based on its description (in natural language). I proposed a model for efficiently representing short descriptions (by vectors) and then matching the description of a new error with the descriptions of the errors whose root causes are known.

Hanoi University of Science and Technology

2002 - 2003

B.S in Computer Science

Vietnam

I participated in the Fingerprint Recognition project. My task was to preprocess the fingerprint images and extract feature points from the images. These feature points will be used for the finger print matching phase.

PUBLICATIONS

- 1. **ThaiBinh Nguyen**, Kenro Aihara, Atsuhiro Takasu, "Collaborative Item Embedding Model for Implicit Feedback Data", in Proceeding of The 17th International Conference on Web Engineering (ICWE), Rome, Italy, 2017.
- 2. **ThaiBinh Nguyen**, Atsuhiro Takasu, "A Probabilistic Model for the Cold-Start Problem in Rating Prediction using Click Data", in Proceeding of The 24th International Conference on Neural Information Processing (ICONIP), Guangzhou, China, 2017.
- 3. **ThaiBinh Nguyen**, Atsuhiro Takasu, "A Hierarchical Bayesian Factorization Model for Implicit and Explicit Feedback Data", in Proceeding of The 13th International Conference on Advanced Data Mining and Applications (ADMA), Singapore, 2017.
- 4. **ThaiBinh Nguyen**, Atsuhiro Takasu, "Personalized Embedding for Recommender Systems", (preprint), 2017.
- 5. **ThaiBinh Nguyen**, Atsuhiro Takasu, "A Deep Session Model for Session-based Recommendation", (preprint), 2017.
- 6. **Binh Nguyen**, Kenro Aihara, Atsuhiro Takasu, "City recommender system based on a latent topic model", IEICE Tech. Rep., vol. 115, no. 381, AI2015-42, pp. 95-99, Dec. 2015

7. Nguyen, T.B., Ho, T.B., Pham, C., Kawasaki, S, "Matching Complex Documents Using Tolerance Rough Set Model", The 8th International Symposium on Knowledge and Systems Sciences KSS07, Ishikawa, Japan, Nov. 5-7, pp.156-162, 2007

SKILLS

Research Probabilistic Modeling, Deep Learning, Recommender Systems Coding & Tools Python, Tensorflow, Pytorch, C/C++, SQL, Hive, Latex

Languages English, Japanese, Vietnamese

INDUSTRIAL EXPERIENCE

Vietvang software solutions

2012 - 2015

Technical manager

Vietnam

· I involved in various types of projects with Japan partners including mobile applications, web applications, CRM as a system designer, programmer and project manager.

NCS Solutions
2003 - 2005
Programmer
Vietnam

· I participated in building a software that captures the actions of users while interacting with computers. This software was used to generate visualized materials for Microsoft office learner: the instructor interacts with M.S office, and these actions are captured to form an interactive materials for learners. Programming language was C++.

TEACHING EXPERIENCE

Hanoi University of Science and Technology (HUST), Vietnam

2008 - 2015

Lecturer at the School of Mathematics and Informatics

Vietnam

- · Probabilistics and Statistics
- · Calculus 1, 2
- · Data structures and Algorithms

HONORS AND AWARDS

Monbukagakusho scholarship (Japanese government) for Ph.D student	2016 - 2019
Monbukagakusho scholarship (Japanese government) for Research student	2015 - 2016
Panasonic scholarship (from Panasonic Ltd.) for studying Master in Japan I am one of two Vietnamese students to be selected	2006 - 2008
Panasonic scholarship (from Panasonic Ltd.) for Research student in Japan I am one of two Vietnamese students to be selected	2005 - 2006
Scholarship from the Ministry of Education and Training, Vietnam for excellent undergraduate student	1998 - 2003

REFERENCES

Professor Atsuhiro Takasu

National Institute of Informatics.

Department of Informatics, SOKENDAI (The Graduate University for Advanced Studies) 2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo 101-8430, Japan takasu@nii.ac.jp

Mr. Hoang Hai Trieu

CEO, Vietvang software company (https://vietvang.net/)

No. 7, Tran Xuan Hoa road, Ward 7, District 5, Ho Chi Minh city trieu_hh@vietvang.net