Van Dang TRAN

Curriculum vitae

PERSONAL INFORMATION

Email: dangtv@soict.hust.edu.vn, dangtv18@gmail.com
Skype: dangtv18
Homepage: https://dangtv.github.io
Gender: Male
Nationality: Vietnamese

RESEARCH INTERESTS

Databases, Query Languages, Programming Languages, Data Analytics, Distributed Systems, Bidirectional Transformation.

EDUCATION

Ph.D. in Informatics October 2017 - September 2022
Department of Informatics (*National Institute of Informatics*),
School of Multidisciplinary Sciences,
The Graduate University for Advanced Studies, SOKENDAI, Japan

- *Supervisor*: Prof. Zhenjiang Hu

B.Sc. in Information Technology September 2012 - August 2017
Center for Training of Excellent Students,
School of Information and Communication Technology,
Hanoi University of Science and Technology, Vietnam

WORK EXPERIENCE

Lecturer 2023 – Present
Department of Computer Science,
School of Information and Communication Technology,
Hanoi University of Science and Technology, Vietnam

JSPS Postdoctoral Research Fellow (PD) 2022 – 2023

JSPS Research Fellow (DC2) April 2022 – September 2022
Awarded by Japan Society for the Promotion of Science (JSPS)

Research Assistant November 2017 – March 2022
Programing Research Laboratory, *National Institute of Informatics*, Japan

PUBLICATIONS

Conference publications

1. Van-Dang Tran, Hiroyuki Kato, Zhenjiang Hu. Toward Recursive View Update Strategies on Relations. In *Proceedings of Ninth International Workshop on Bidirectional Transformations (Bx 2021)*, Virtual Conference, 2021.

2. Van-Dang Tran, Hiroyuki Kato, Zhenjiang Hu. A Counterexample-Guided Debugger for Non-Recursive Datalog. In *Proceedings of 18th Asian Symposium on Programming Languages and Systems (APLAS 2020)*, p. 323-342, Virtual Conference, 2020.

3. Van-Dang Tran, Hiroyuki Kato, Zhenjiang Hu. BIRDS: Programming view update strategies in Datalog. In *Proceedings of 46th International Conference on Very Large Data Bases (VLDB 2020)*, Demonstration, vol. 13(12), p. 2897–2900, Tokyo, Japan, 2020.

4. Van-Dang Tran, Hiroyuki Kato, Zhenjiang Hu. Programmable View Update Strategies on Relations. In *Proceedings of 46th International Conference on Very Large Data Bases (VLDB 2020)*, vol. 13(5), p. 726–739, Tokyo, Japan, 2020.

5. Xing Zhang, Van-Dang Tran, Kato, Zhenjiang Hu. A Cheap Implementation of Resugaring in BIRDS Based on Bidirectional Transformation. In *Proceedings of Fourth Workshop on Software Foundations for Data Interoperability (SFDI 2020)*, Tokyo, Japan, 2020.

6. Jumpei Tanaka, Van-Dang Tran, Zhenjiang Hu. Toward Programmable Strategy for Co-existence of Relational Schemes. In *Proceedings of Fourth Workshop on Software Foundations for Data Interoperability (SFDI 2020)*, Tokyo, Japan, 2020.

6. Jumpei Tanaka, Van-Dang Tran, Zhenjiang Hu. Toward Co-existing Database Schemas based on Bidirectional Transformation. In *Third Workshop on Software Foundations for Data Interoperability (SFDI2019+)*, Fukuoka, Japan, 2019.

7. Van-Dang Tran, Hiroyuki Kato, Zhenjiang Hu. A Declarative Framework for Updatable Views in Relational Databases. In *Proceedings of WebDB Forum 2019*, p. 85-88, Tokyo, Japan, Sep 2019. (Best student paper award)

8. Hoang-Long Huynh, Van-Dang Tran, Huu-Duc Nguyen, Zhenjiang Hu, Trong-Vinh Le, Quyet-Thang Huynh. Auto-updating Portable Application Model of Multi-cloud Marketplace through Bidirectional Transformations System. In *Proceedings of 18th International Conference on Intelligent Software Methodologies, Tools, and Techniques (SOMET 2019)*, p. 11-24, Malaysia, Sep 2019. doi:10.3233/FAIA190035

9. Dang Tran, Nhuan Tran, Giang Nguyen and Binh Minh Nguyen. A Proactive Cloud Scaling Model Based on Fuzzy Time Series and SLA Awareness. In *Proceedings of International Conference on Computational Science (ICCS 2017)*, vol. 108, p. 365-374, Switzerland, June 2017, ISSN 1877-0509. doi:10.1016/j.procs.2017.05.121

10. Dang Tran, Nhuan Tran, Binh Minh Nguyen and Hieu Le. PD-GABP - A Novel Prediction Model Applying for Elastic Applications in Distributed Environment. In *Proceedings of 3rd National Foundation for Science and Technology Development Conference on Information and Computer Science*, p. 240-245, Danang, Vietnam, 2016, ISBN: 978-1-5090-2100-0/16. doi:10.1109/NICS.2016.7725658

11. Binh Minh Nguyen, Dang Tran and Quynh Nguyen. A strategy for server management to improve cloud service QoS. In *Proceedings of 19th International Symposium on Distributed Simulation and Real Time Applications (DS-RT)*, p. 120-127, Chengdu, China, Oct 2015. doi:10.1109/DS-RT.2015.14

Journal publications

12. Cuong Ha, Van-Dang Tran, Linh Ngo Van, and Khoat Than. Eliminating overfitting of probabilistic topic models on short and noisy text: The role of dropout. In: *International Journal of Approximate Reasoning*, vol. 112, p. 85-104, 2019, ISSN 0888-613X. doi:10.1016/j.ijar.2019.05.010.

13. Giang Nguyen, Binh Minh Nguyen, Dang Tran, and Ladislav Hluchy. A heuristics approach to mine behavioral data logs in mobile malware detection system. In: *Data & Knowledge Engineering*, vol. 115, p. 129-151, 2018, ISSN 0169-023X. doi:10.1016/j.datak.2018.03.002.

14. Binh Minh Nguyen, Dang Tran and Giang Nguyen. Enhancing service capability with multiple finite capacity server queues in cloud data centers. In: *Cluster Computing*, vol. 19(4), p. 1747-1767, 2016, ISSN 1573-7543. doi:10.1007/s10586-016-0653-y.

LANGUAGES

Vietnamese – Mother tongue
English – Proficient user

Skills

Communication skills

- Teamwork:
  - Worked in a variety of research teams such as Programing Research Laboratory, High Performance Computing Centre, and Data Science Laboratory.

Professional skills

- Good ability to research independently with a strong mathematical background.
- Methodology for compilers, data engineering, web applications/services.
- Variety of tools:
  - Operating systems: GNU/Linux, Macos.
  - Programming languages: Ocaml, JavaScript, Python, Java, C/C++, C#.
  - Markup languages: HTML/CSS.
  - Proof assistant tools: Lean, Z3.
  - Database: PostgreSQL, MongoDB.
  - IDE: Visual Studio, IntelliJ Idea.
  - Office Tools: Latex, MS Office, etc.

Grants

- **Grant-in-Aid for JSPS Fellows** April 2022 – March 2024
  JSPS KAKENHI Grant for Young Scientists, Number 22J14844

Awards

- **Best Student Award** March 17, 2020
  At the National Institute of Informatics, Tokyo, Japan
- **Best Student Paper Award** September, 2019
  In WebDB Forum 2019, Tokyo, Japan
- **MEXT Honors Scholarship** October, 2017 - March, 2018.
  By Japan Student Services Organization (JASSO)
- **Third Prize** May 2016
  In the 33rd Student Conference of Scientific Research, Hanoi University of Science and Technology
- **First Prize** April 2013
  In the 21^{st} National Mathematics Olympiad for Students
  Organized by Vietnam Mathematical Society and Ministry of Education and Training
- **Second Prize** April 2013
  In the 16^{th} National Physics Olympiad for Students organized by Ministry of Education and Training, Vietnam Physical Society and Vietnam Union of Scientific & Technological Associations

References

Upon request