# TRAN Van-Hoang

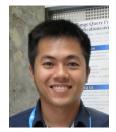
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## **Employment History**

2011 - Today

- ♦ **Lecturer**, Can Tho University, Viet Nam.
  - Prepare and give lectures to undergraduate students, e.g., programming with C, C#.NET, Software Requirements Analysis, Algorithms Design and Analysis, Data Structure, and Software Engineering Project.
  - Supervise 13 undergraduate students for final projects.
  - Conduct research with collaboration.

2011 - 2011

- ♦ **Software developer,** TMA Solutions, Viet Nam.
  - Apply cutting-edge technologies to potential projects, especially hybrid frameworks (PhoneGap) for building mobile applications (Android and iOS).

### **Education**

2017 - Today

♦ PhD Student in Computer Science, Rennes 1 University, France

Thesis title: Performance Analysis of Big Data Management Systems for Cyber Security.

- Study tools protecting data privacy, namely differential privacy, applied cryptography.
- Study Big Data technologies such as NoSQL, HDFS, Spark, etc.
- Propose solutions for supporting range query processing on encrypted data with respect to common properties of Big Data systems (intensive throughput, high-frequency update, high volume).

2014 - 2015

♦ M.Sc. in Computer Science, Western Brittany University, France.

Thesis title: Cyber-Physical Systems and Mixed Simulations.

- Model and implement simulations based on Cellular Automata (CA), then use GPU to boost the simulations.
- Federate the CA-based simulations using the High Level Architecture standard.

2007 - 2011

♦ B.S. in Software Engineering, Can Tho University, Viet Nam.

Thesis title: A Digital Traffic Map of Can Tho City based on WebGIS.

- Use MapInfo tool to obtain GIS data and store the data on PostGIS.
- Build webservices on the stored data such as interested locations, shortest path, etc.
- Develop a web-based map using OpenLayers library.

#### **Research Publications**

- Truong, T. M., Phan, C. H., **Tran**, **V. H.**, Duong, L. N., Van Nguyen, L., & Ha, T. T. (2020). To develop a water quality monitoring system for aquaculture areas based on agent model, In *ICICT*, Singapore, Springer.
- **Tran**, **V. H.**, Allard, T., d'Orazio, L., & Abbadi, E. A. (2019). Range Query Processing for Monitoring Applications over Untrustworthy Clouds, In *EDBT*, Lisbon, Portugal.
- **Tran**, V. H., Huynh, H. X., Phan, V. C., & Pottier, B. (2016). A federation of simulations based on cellular automata in cyber-physical systems. *EAI Endorsed Transactions on Context-aware Systems and Applications*, 3(7).

- **Tran**, **V. H.**, Truong, T. P., Nguyen, K. T., Huynh, H. X., & Pottier, B. (2016). A federated approach for simulations in cyber-physical systems, In *ICCASA*, Vung Tau, Viet Nam, Springer.
- Truong, T. P., **Tran**, **V. H.**, Huynh, H. X., & Pottier, B. (2016). Optimizing the connection time for leo satellite based on dynamic sensor field, In *ICCASA*, Vung Tau, Viet Nam, Springer.
- 6 Lam, B. H., **Tran**, **V. H.**, Huynh, H. X., & Pottier, B. (2015). Synchronous networks for insects surveillance, In *SoICT*, Hue City, Viet Nam, ACM.

#### Skills

Languages  $\diamond$  Vietnamese (Native), English (Fluent), French (Intermediate).

Coding ♦ Java, C++, C#, CUDA, PHP, Python, SQL.

Databases  $\diamond$  MySQL, PostgreSQL, SQL Server.

Tools/IDEs ♦ Eclipse, MS Visual Studio, SVN, GitHub, Vim, Maven.

Misc.  $\diamond$  Academic research, teaching, training, consultation, LTEX typesetting and publishing.

## Miscellaneous Experience

#### **Awards and Achievements**

2011 **Valedictorian of Software Engineering class**, Can Tho University.

- Ranked **first** among 476 graduates of the same college.

#### **Grants**

Project: A monitoring system for catfish farm

- Develop wireless sensor networks for monitoring water-related parameters, e.g., dissolved oxygen, pH, temperature, etc.
- Build webservices.
- Develop a winform, android, and web application for displaying collected data using the built webservices.

Project: One-stop-shop system for student services at a university faculty.

- Relieve high pressure of administrative personnel and encourage students to use online services to self-support and meet their need, namely signed transcripts, certification of student status, etc.

#### References

Prof. Laurent d'Orazio, IUT de Lannion, Rennes 1 University, CNRS, IRISA

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