

TRAN Van-Hoang

PhD Student | Univ Rennes, IRISA, CNRS

📍 Lannion, France
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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

- 1 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.
- 2 **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.
- 3 **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).

- 4 **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.
- 5 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 ◇ Vietnamese (Native), English (Fluent), French (Intermediate).
- Coding ◇ Java, C++, C#, CUDA, PHP, Python, SQL.
- Databases ◇ MySQL, PostgreSQL, SQL Server.
- Web Dev ◇ HTML, CSS, JavaScript, jQuery, Ajax, Webservice, Apache Web Server, Tomcat Web Server.
- Tools/IDEs ◇ Eclipse, MS Visual Studio, SVN, GitHub, Vim, Maven.
- Misc. ◇ Academic research, teaching, training, consultation, \LaTeX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

- 2014 ◇ **Eiffel Excellence Scholarship**, pursuing the master 2 at Western Brittany University, France.
- 2011 ◇ **Valedictorian of Software Engineering class**, Can Tho University.
- Ranked **first** among 476 graduates of the same college.

Grants

- 2016 – 2017 ◇ **Can Tho University research grant**, technical member.
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.
- 2013 – 2014 ◇ **Can Tho University research grant**, technical member.
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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