TRAN Van-Hoang

Research Engineer | Univ Rennes, IRISA, CNRS

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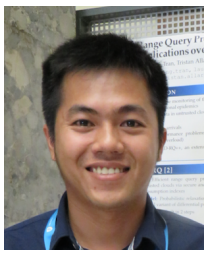

Employment History

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 undergraduate theses.
- Conduct research with international collaboration.

2011 – 2011 ◇ **Software developer,** TMA Solutions, Viet Nam.
- Apply cutting-edge technologies to potential projects, particularly hybrid frameworks (PhoneGap) for building mobile applications (Android and iOS).

Education

2017 – 2020 ◇ **PhD Student in Computer Science, Rennes 1 University, France**
Thesis title: *Performance Analysis of Big Data Management Systems for Cybersecurity.*
- Study tools protecting data privacy, namely differential privacy, applied cryptography, etc.
- Study Big Data technologies such as NoSQL, Hadoop, Spark, ElasticSearch etc.
- Propose solutions for efficiently 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 of physical systems 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 over the stored data such as finding 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.
Tools/IDEs	◇ Eclipse, MS Visual Studio, SVN, GitHub, Vim, Maven.
Misc.	◇ Academic research, teaching, training, consultation, LaTeX typesetting and publishing.

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 a wireless sensor network for monitoring and sampling water-related parameters, e.g., dissolved oxygen, pH, temperature, etc.
- Implement webservices over collected data.
- Develop applications (Winforms, Android, and web) for displaying real-time status of water as well as statistics using the 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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