

CURRICULUM VITAE

IDENTIFICATION

Family Name : Luong
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Languages : Vietnamese (native language), English (B2 From Can Tho University).
Degree : Master
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TRAINING

Oct. 2013 – Dec. 2015 : Master degree from the Can Tho University, Vietnam.
Sept. 2006 – Dec. 2009 : Engineer degree in informatics from Can Tho University, Vietnam.
1995 – May. 2006 : Pupil in Ca Mau province.

EXPERIENCES

Since Sep. 2019 : Teaching at FPT University, Can Tho, Vietnam.
03/2010 – 08/2019 : Teaching (lecturer since 2011) at the Can Tho University Software Center, Can Tho University, Vietnam.
November 2008 : Participate in Olympic competition Certificate of Achievement ACM.
April 16, 2012 : Microsoft® Certified Solutions Associate Windows Server 2008.
May 05, 2012 : MCTS – Pro : Designing and Developing Web Application Using Microsoft .NET Framework 4.0

Administrative responsibilities

Since Jun. 2018 : Team leader of Lecturer group in Can Tho University Software Center.
Since Dec. 2015 : Team leader of Cloud Computing group in Can Tho University Software Center.

Teaching

Undergraduate courses : Data structures, algorithms, C, C++, Java, Visual C#, , object-oriented programming, programming languages , computer basics, PHP, Laravel Framework, Joomla, Smarty, ASP.NET, ASP.NET MVC, JSP, XML/JSON, Windows Store App, Windows Phone, Windows Azure, RestFul API Service, Java Application Development, JSP, JSF&Struct, Internet Security, CEH, Network Administrative, Malware Analysis & Reversing Engineering, Risk Management in IT.

Research projects

Subject	Level	Role
Optimizing the Brown Plant Hopper surveillance network using automatic light traps in the Mekong Delta region	Ministry	Member
Building a cloud computing infrastructure based on OpenStack	Center	Leader

INTERESTED RESEARCH

- Modeling and simulating of environmental/social issues (multiagent systems, multiscale techniques, optimization, cellular automata,...).
- Parallel computing
- Wireless sensor networks.
- Machine learning.
- Deep learning.

Master thesis at the Can Tho University (defended on December 19, 2015)

- Subject: Graph Model based on Balltree Structure.
- Supervisor: A/Prof. (HDR) Hiep Xuan Huynh (hxhiep@ctu.edu.vn)

PUBLICATION

A. ISI/Scopus

a. Journal

- [1] Hiep Xuan Huynh, Huy Quang Dang, **Huong Hoang Luong**, Linh My Thi Ong, Nghia Duong-Trung, Toan Phung Huynh, Huy Van Pham, Bernard Pottier. *BPH Sensor Network Optimization based on Cellular Automata and Honeycomb Structure*. Springer Mobile Networks and Applications (MONET). DOI. ISI Q2. SCIE. IF 2.390. 2020.
- [2] Hai Thanh Nguyen, Nhi Yen Kim Phan, **Huong Hoang Luong**, Nga Hong Cao, Hiep Xuan Huynh. *Binning approach based on Classical clustering for Type 2 Diabetes Diagnosis*. International Journal of Advanced Computer Science and Applications. Scopus. 2020.
- [3] Hiep Xuan Huynh, Quy Thanh Lu, Linh My Thi Ong, **Huong Hoang Luong**, Lan Phuong Phan. *Simulating the spreading of brown plant hoppers based on Cellular Automata*. Journal in Concurrency and Computation Practice and Experience (CCPE). DOI. ISI Q3. 2019.

b. Conference

- [4] Hiep Xuan Huynh, Phuoc Thanh Luu, **Huong Hoang Luong**, Nghia Duong-Trung, Minh Thai Truong, Nga Quynh Thi Tang, Tu Cam Thi Tran (2020). Analysis of Atmospheric Quality Based on Cellular Automata Simulation. in Proceedings of ACM International Conference on Intelligent Information Technology (ICIIT 2020). February 19-22, 2020. Ha Noi, Vietnam. Scopus. (Presented)
- [5] Phuc Quang Tran, Ngoan Thanh Trieu, **Huong Hoang Luong**, Nghi C. Tran, Hiep Xuan Huynh (2020). An Affinity Propagation Approach for Entity Clustering with Spark. in Proceedings of ACM International Conference on Intelligent Information Technology (ICIIT 2020). February 19-22, 2020. Ha Noi, Vietnam. Scopus. (Presented)
- [6] Hiep Xuan Huynh, Tin Trung Dang, Linh My Thi Ong, **Huong Hoang Luong**, Nghia Duong-Trung, Tan Tai Phan and Bernard Pottier (2020). *Simulating Mangroves Rehabilitation with Cellular Automata*. The ACM 4th International Conference on Machine Learning and Soft Computing (ICMLSC 2020). January 17-19, 2020. Hai Phong, Vietnam. Scopus. **(Best Paper Award)**
- [7] Linh Thi My Ong, Nghe Thai Nguyen, **Huong Hoang Luong**, Nghi C. Tran and Hiep Xuan Huynh (2020). *Cyber Physical System: Achievements and challenges*. The ACM 4th International Conference on Machine Learning and Soft Computing (ICMLSC 2020). January 17-19, 2020. Hai Phong, Vietnam. Scopus.
- [8] Hiep Xuan Huynh, Ky Nguyen, Khoa Nguyen, **Huong Hoang Luong**, Nghi C. Tran, Linh Nguyen, Tan Tran, Phuong Pham, and Simona Niculescu (2020). *Discovered Changes in Rice Occupation with Satellite Images based on Random Forest Approach*. The ACM 4th International Conference on Machine Learning and Soft Computing (ICMLSC 2020). January 17-19, 2020. Hai Phong, Vietnam. Scopus.
- [9] **Huong Hoang Luong**, Tuyen Phong Truong, Ky Minh Nguyen, Hiep Xuan Huynh. *Optimizing the light trap position for Brown Planthopper surveillance network*. ICTCC 2016 – 2nd EAI International Conference on Nature of Computation and Communication, Springer-Verlag, pp. 165-178, 2016 (ISBN 978-3-319-46908-9).
- [10] Tuyen Phong Truong, **Huong Hoang Luong**, Hiep Xuan Huynh, Bernard Pottier. *Modeling and Optimizing of Connections for Dynamic Sensor Fields Based on BT-Graph*. ICTCC 2016 – 2nd EAI International Conference on Nature of Computation and Communication, Springer-Verlag, pp. 25-50, 2007 (ISBN 978-3-319-46908-9).

B. International journal

- [11] **Huong Hoang Luong**, Thanh Hai Nguyen, Hung Huu Huynh, Hiep Xuan Huynh. *Design and optimization of the Automatic Brown PlantHopper (BPH) light trap surveillance network*. *Journal in EAI Endorsed Transactions on Context-aware Systems and Applications*. pp.1-7. 2016 (ISSN 2409-0026).
- [12] Tuyen Phong Truong, **Huong Hoang Luong**, Hiep Xuan Huynh, Vinh Cong Phan, Bernard Pottier. *Modeling the Connection of Dynamic Sensor Fields based on BT-Graph*. *Journal in EAI Endorsed Transactions on Context-aware Systems and Applications*. pp.1-9. 2016 (ISSN 2409-0026).

C. International conference

- [13] Linh Ong Thi My, **Huong Hoang Luong**, Quy Thanh Lu, Huy Cong Nguyen, Hiep Xuan Huynh. *Simulation the BPH spread with the impact of their natural enemies based on Cellular Automata and Predator-Prey model*. KSE 2016 (The Eighth International Conference on Knowledge and Systems Engineering). IEEEExplore. pp. 121-126. 2016 (DOI: 10.1109/KSE.2016.7758040) .
- [14] Giang Nguyen Thi Phuong, **Huong Hoang Luong**, Tai Huu Pham, Hiep Xuan Huynh. *A parallel algorithm for determining the communication radius of an automatic light trap based on balltree structure*. KSE 2016 (The Eighth International Conference on Knowledge and Systems Engineering). IEEEExplore. pp. 139-143. 2016 (DOI: 10.1109/KSE.2016.7758040) .

D. National conference

- [15] **Huong Hoang Luong**, Thanh Hai Nguyen, Hiep Xuan Huynh. *Improving the search speed of BT-Graph model based on CUDA*. *Proceeding of FAIR - Fundamental and Applied IT Research*. pp. 72-79, 2015.
- [16] **Huong Hoang Luong**, Hiep Xuan Huynh. *Graph-based model for geographic coordinate search based on balltree structure*. *Proceeding of the 17th national Conference in Vietnam*. pp. 116-123, 2014.

TECHNOLOGICAL ENVIRONMENT KNOWN

Operating systems	: DOS, MS Windows, Windows Server 2008/2012/2016, Linux.
Programming languages	: Python, Smalltalk, C, C++, C#, Java, Java Script, SQL, ASP.NET, ASP.NET MVC, XML/JSON, PHP.
Databases/DBMS	: SQL Server, MySQL, PostgreSQL.
Framework	: Laravel Framework, DevExpress, OpenCart/Magento.

ACTIVITIES AND INTERESTS

- Chess.
- Music, cinema.