



Quang-Huy Duong

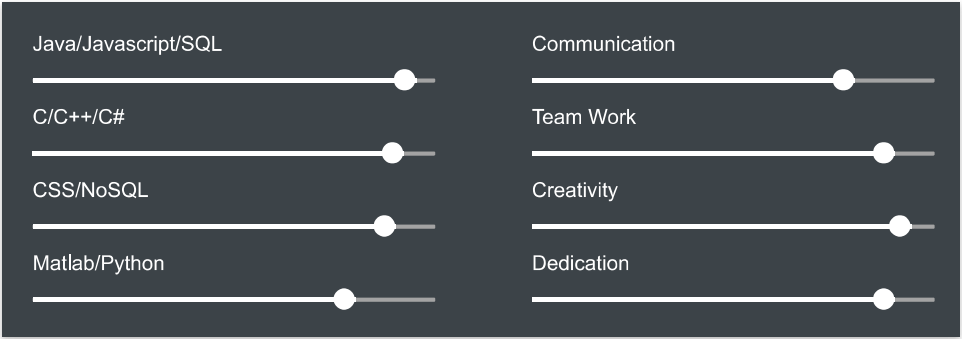
PhD Fellow, Department of Computer Science
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About Me

I am a Ph.D. fellow majoring in Computer Science at NTNU, Norway. My research interests include data mining, artificial intelligent, and machine learning. My supervisors are [Prof. Heri Ramampiaro](#) and [Prof. Kjetil Nørvåg](#), and I was supported by [MUSED project](#). I received M.S. in Computer Science at Hunan University, China, under supervision by [Prof. Bo Liao](#).

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EDUCATION

Norwegian University of Science and Technology, Norway
Ph.D. in Computer Science • *March. 2017 - Present*

Hunan University, China
M.S. in Computer Science and Engineering • *Nov. 2016*

Hanoi University of Science and Technology, Vietnam
B.S. in Computer Science • *Jun. 2004*

WORK EXPERIENCE

[Norwegian University of Science and Technology, Norway](#)
Phd Fellow & Research Assistant • *March. 2017 - Present*

[Military Bank, Vietnam](#)
IT specialist • *May. 2013 - Sep. 2014*

VTCMobile, Vietnam

IT specialist • 2011 - 2013

CDIT, Vietnam

Researcher • 2006 - 2011

Vinacomm, Vietnam

Developer • 2004 - 2006

PUBLICATIONS

2018 or Later

- [J7] Applying temporal dependence to detect changes in streaming data
Quang-Huy Duong, Heri Ramampiaro, Kjetil Nørnvåg
Applied Intelligence. [[paper](#) | [code and datasets](#) | [bib](#)]
- [J6] High utility drift detection in quantitative data streams
Quang-Huy Duong, Heri Ramampiaro, Kjetil Nørnvåg, Philippe Fournier-Viger, Thu-Lan Dam
Knowledge-Based Systems, (2018) 157, 34-51 [[paper](#) | [code and datasets](#) | [bib](#)]
- [J5] Efficient high utility itemset mining using buffered utility-lists
Quang-Huy Duong, Philippe Fournier-Viger, Heri Ramampiaro, Kjetil Nørnvåg, Thu-Lan Dam
Applied Intelligence, vol 48(7): 1859-1877. [[paper](#) | [code and datasets](#) | [bib](#)]

2017

- [J4] An efficient algorithm for mining top-k on-shelf high utility itemsets
Thu-Lan Dam, KenLi Li, Philippe Fournier-Viger, Quang-Huy Duong.
Knowledge and Information Systems, vol 52(3), 621-655. [[paper](#) | [code and datasets](#) | [bib](#)]
- [J3] CLS-Miner: efficient and effective closed high-utility itemset mining
Thu-Lan Dam, KenLi Li, Philippe Fournier-Viger, Quang-Huy Duong.
Frontiers of Computer Science, pp 1-25. [[paper](#) | [code and datasets](#) | [bib](#)]

2016

- [B1] PFPM: discovering periodic frequent patterns with novel periodicity measures

Philippe Fournier-Viger, Chun-Wei Lin, [Quang-Huy Duong](#), Thu-Lan Dam, Lukáš Ševčík, Dominik Uhrin, Miroslav Voznak
Proceedings of the 2nd Czech-China Scientific Conference [[paper](#) | [code and datasets](#) | [bib](#)]

[C2] FHM+: Faster High-Utility Itemset Mining Using Length Upper-Bound Reduction

Philippe Fournier-Viger, Jerry Chun-Wei Lin, [Quang-Huy Duong](#), Thu-Lan Dam
IEA/AIE 2016 [[paper](#) | [code and datasets](#) | [bib](#)]

[C1] PHM: mining periodic high-utility itemsets

Philippe Fournier-Viger, Jerry Chun-Wei Lin, [Quang-Huy Duong](#), Thu-Lan Dam
Industrial Conference, ICDM 2016 [[paper](#) | [code and datasets](#) | [bib](#)]
Nominated for best paper award (one of the three finalists)

[J2] An efficient algorithm for mining the top-k high utility itemsets, using novel threshold raising and pruning strategies

[Quang-Huy Duong](#), Bo Liao, Philippe Fournier-Viger, Thu-Lan Dam
Knowledge-Based Systems, vol (2016) 104, 106-122. [[paper](#) | [code and datasets](#) | [bib](#)]

[J1] An efficient algorithm for mining top-rank-k frequent patterns

Thu-Lan Dam, KenLi Li, Philippe Fournier-Viger, [Quang-Huy Duong](#).
Applied Intelligence, vol 45 (1), 96-111. [[paper](#) | [code and datasets](#) | [bib](#)]

AWARDS

The national encouragement prize in Math for high school student, 1999

Full CSC Scholarship for Master degree, Sep, 2014 - Nov, 2016

PhD Fellowship, March, 2017 - March, 2021

TEACHING EXPERIENCE

Teaching Assistant of TDT4310 - Intelligent Text Analytics and Language Understanding, Spring 2018 [[www](#)]

GRADUATE COURSEWORK

DT8116 - Web Mining Spring 2017 [[www](#)]

DT8801 - Advance Database Systems Spring 2017 [[www](#)]

INVITED REVIEWER FOR

Knowledge-Based Systems, Artificial Intelligence Review, Information Sciences, DMIN

LANGUAGES

Vietnamese, English, Chinese (basic), Norwegian (basic)

REFEREES

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