VIETNAM NATIONAL UNIVERSITY-HCM

The University of Science

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SOCIALIST REPUBLIC OF VIETNAM

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**COMMENTS ON MASTER THESIS**

(for Supervisor)

Student name: Nguyen Van Quang

Thesis title: Online Capacity Estimation of Lithium-ion using Data-driven Methods

Program: Information and Communication Technologies, collaboration between the University of Science, John von Neumann Institute - VNU-HCM and Télécom ParisTech.

Program code: 60.48.01

Supervisor 1: Assoc. Prof. Quan Thanh Tho

Institution 1: Ho Chi Minh City University of Technology

**COMMENTS**

1. **Student’s study and research attitude:**

Quang has been maintaining good attitude during his research time. He kept working hard and actively discussing with his supervisor and teammates for his study.

1. **Scientific research capability:**

The student has been demonstrating good research capability. He could conduct literaturer review, analyze the problem and propose suitable solution. He is also capable of implementing his solution and conduct experiment accordingly to verify the results.

1. **Summary of thesis’s results:**

In his thesis, Quang investigated a model to predict the capability of Lithium-ion battery using deep learning approach. His solution is realized as a CNN-based model. Quang did experiments and compared to other typical approaches using machine learning in this area to confirm the advantage of his solution.

1. **Practical applications of the results (if applicable):**

Quang’s is implemented based on real datasets of Lithium-ion battery and could be further developed as practical application.

1. **Conclusion:**
2. Does the work meet the requirements of a master thesis?
3. Should the student be permitted to defend the thesis?

The work meets the thesis requirement and the student could defend his thesis in front of a committee.

1. **Other comments (if applicable):**

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Signature of Supervisor 1: Date:……………………………

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Assoc. Prof. Quan Thanh Tho