QUOC VIET, LUONG

PROFILE

Quoc Viet, Luong was born in Kon Tum City, Viet Nam. He graduated with a BE in Ho Chi Minh University of Technology in 2012. His major is Mechanical Engineering. He also graduated with a ME in Ho Chi Minh University of Technology in 2015. He is currently pursuing the Ph.D. degree with the School of Mechanical Engineering, Korea Aerospace University, South Korea. The main goal of his research is to improve the performance of intelligent landing gear equipped with MR damper.

EDUCATION

- Graduated from HCM city University of Technology (2012)
- Master in HCM city University of Technology (2015)
- PhD Student in Korea Aerospace University. (2017-Present)

WORKING EXPERIMENT:

Lecturer at Industrial Training Center HCM city University of Technology (2012-present).

CONTACT

PHONE: 010-3207-8910
EMAIL:
lqviet@kau.kr
luongquocviet@hcmut.edu.vn
Website:
https://vuonhiendai.github.io/

AERA RESEARCH

Smart material, vibration and control system, intelligent control, neural network, and reinforce learning.

SKILL

Languages: English, Korean, Vietnamese.
Software: Recurdyn, Creo, AutoCad, Ansys Workbench, Abaqus.
Programming: Matlab, Maple, Python, HTML, CSS, JavaScript, Arduino.

JOURNAL PUBLISH

- Luong, Q.V.; Jang, D.-S.; Hwang, J.-H. Semi-Active Control for a Helicopter with Multiple Landing Gears Equipped with Magnetorheological Dampers. *Appl. Sci.* **2021**, *11*, 3667. https://doi.org/10.3390/app11083667
- Luong, Q.V.; Jang, D.-S.; Hwang, J.-H. Intelligent Control Based on a Neural Network for Aircraft Landing Gear with a Magnetorheological Damper in Different Landing Scenarios. *Appl. Sci.* 2020, *10*, 5962. https://doi.org/10.3390/app10175962
- Luong, Q.V.; Jang, D.-S.; Hwang, J.-H. Robust Adaptive Control for an Aircraft Landing Gear Equipped with a Magnetorheological Damper. *Appl. Sci.* 2020, *10*, 1459. DOI: https://doi.org/10.3390/app10041459
- Luong, Q.V and et al. "Sliding Mode Control for an Intelligent Landing Gear Equipped with Magnetorheological Damper ", 항공우주시스템공학회지 ,2020, vol.14, no.2, pp. 20-27 (8 pages) .*DOI : 10.20910/JASE.2020.14.2.20*
- J. M. Tak, L. Q. Viet, and J.-H. Hwang, "MR 댐퍼를 적용한 항공기 착륙장치의 하이브리드 제어기법 연구," 항공우주시스템공학회지, vol. 12, no. 1, pp. 1–9, Feb. 2018.DOI:https://doi.org/10.20910/JASE.2018.12.1.1

CONFERENCE

- Quoc Viet Luong, Dae Sung Jang, and Jai Hyuk Hwang, Effect of Time Delay of MR Actuator on the Performance of an Aircraft Landing Gear with MR Damper, SASE 2020 Spring Conference, 2020, Jeju - Korea, South.
- Quoc Viet Luong, Dae-Sung Jang and Jai-Hyuk Hwang, Neural Network Control Trained by Genetic Algorithm for an Aircraft Landing Gear Equipped with a Magnetorheological Damper, SICE International Symposium on Control Systems 2020, 2020, Tokushima - Japan.
- Luong Quoc Viet, Dae-Sung Jang, and Jai Hyuk Hwang, Intelligent Landing Gear equipped with MR damper based on Genetic Algorithm-Neural Network, SASE 2019 Fall Conference, 2019, Gyeongsangnam-do - Korea, South. http://sase.or.kr/Upload/Session/25/FC5-3.pdf
- Dae-Sung Jang, Luong Quoc Viet, Sung-Yong Lee, Jai-Hyuk Hwang, Optimal Impact Absorption Efficiency of MR Dampers in Aircraft Landing, KSAS 2019 Spring Conference, 2019, Jeju - Korea, South. http://www.dbpia.co.kr/pdf/pdfView.do?nodeId=NODE08753256&mark=0&useDate=&bookmarkCnt=0&ipRange=N&language=ko_KR
- Luong Quoc Viet and Jai Hyuk Hwang, A Design of Landing Gear System Equipped Magnetorheological Damper Based on Sliding Mode Control, SASE 2018 Spring Conference, 2018, Jeju - Korea, South. http://sase.or.kr/Upload/Session/20/P%EC%A0%9C%EC%96%B4-1.pdf
- Luong Quoc Viet, Jun-Mo Tak, and Jai-Hyuk Hwang, Control of Intelligent landing gear with Magneto – Rheological damper, SASE 2017 Fall Conference, 2017, Busan - Korea, South. http://sase.or.kr/Upload/Session/19/P%EB%B6%80%ED%92%88-7.pdf
- Luong Quoc Viet, Jai Hyuk Hwang, A Semi-Active Controller for an Aircraft Landing Gear Equipped with Magnetorheological Damper, International Conference on Machining, Materials and Mechanical Technologies (IC3MT 2018), 2018, Hồ Chí Minh - Việt Nam. https://doi.org/10.4028/www.scientific.net/AMM.894.29