Vu Thang Long
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Mechatronics Department, Faculty of Mechanical Engineering
Nha Trang University,
02 Nguyen Dinh Chieu St.,
Nha Trang city, Vietnam

EDUCATION

Nha Trang University, Nha Trang, Vietnam

PhD degree about Transportation Engineering, 2010-2016
Master of Mechatronics Technology, 2014-2006
Bachelor of Transportation Engineering, 1995-2000

RESEARCH INTERESTS

2016-until now: Automation and control in food production; CNC; Smart home
2010-2016: Hybrid electric vehicles.
2009-2010: Diving robot
2004-2006: Electric car, Adjustable wheel module for electric cars
2000-2003: Automotive Electrical and Electronic Systems

TEACHING RESPONSIBILITY

Undergraduate

1. PLC
2. Industrial communication network
3. Production process automation
4. SCADA
5. Optimization

Graduate

PUBLICATIONS AND PRESENTATIONS

Books (in Vietnamese)

Book (in English)

Journals and Presentations

A article in Vietnamese journals and 6 articles in international journals in hybrid electric vehicles.

1. Vu Thang Long, (2011), "*Research on power flow management in hybrid engines"*, Vietnam Journal of Mechanical Engineering, 2011

2. V. T. LONG, N. V. NHAN, (2012), "*Bees-algorithm-based optimization of component size and control strategy parameters for parallel hybrid electric vehicles"*, International Journal of Automotive Technology, 13, 7, 1177 – 1183.

3. V. T. LONG, (2012), "*Application of Bees Algorithm for simultaneous optimisation of HEV key component sizes and control strategy"*, The 2nd international conference on automotive technology, engine and alternative fuels, ISBN: 978-604-73-1496-6, 37 – 43.
4. Vu Thang Long (2013), "*Research on Control Strategy of Series Hybrid Electric Vehicles"*, The 3rd International Conference on Sustainable Energy, 2013, ISBN: 978-604-73-1990-9

5. V. T. LONG (2013), "*Research on Control Strategy of Series Hybrid Electric Vehicles"*, International Journal of Renewable Energy and Environmental Engineering, ISSN 2348-0157, Vol. 01, No. 01, October 2013

6. V. T. LONG (2015), "*Application of a pheromone-based bees algorithm for simultaneous optimisation of key component sizes and control strategy*

for hybrid electric vehicles", International Journal of Swarm Intelligence and Evolutionary Computation, USA, Vol. 04, Issue 01, 2015

7. Vu Thang Long (2015), "*Application of a Pheromone-based Bees Algorithm as an optimizer of Multidisciplinary Design Optimization for Powertrain Component Sizing and Control Strategy Parameters for Hybrid Electric Vehicles – Toyota Prius 1998*", The 14th Conference on Science and Technology, International Session on Transportation Engineering, HCM City University of Technology

8. V. T. LONG, MS. PACKIANATHER (2016), *"Application of a Pheromone-Based Bees Algorithm as an Optimizer Within a Multidisciplinary Design Optimization System for Powertrain Component Sizing and Control Parameters for Hybrid E-Vehicles"*, International Journal of Transportation Engineering and Technology, USA, Vol. 1, No. 1, 2015, pp 1-9, doi: 10.11648/j.ijtet.2015.0101.11

PROFESSIONAL MEMBERSHIPS