



Contact Info	
Name	Ly Vinh Dat
Academic Position	Lecturer
Academic Degree	PhD
Office	Department of Internal Combustion Engine
Building	Internal Combustion Engine office
Phone	(+84) 903707702
Email	datlv@hcmute.edu.vn

**Fields of Expertise / Research Interests**

Internal combustion engine  
 Intake and exhaust systems  
 Electromagnetic valve train  
 Renewable energy

**Education Career**

2003: Engineer Degree, major “Automotive Engineering” in HCMUTE (VN)  
 2005: Master Degree, major “Vehicle Engineering” in HCMUTE (VN)  
 2013: PhD Degree, major " Mechanical and Electrical Engineering" in National Taipei University of Technology (Taiwan)

**Publication**

No	Project title/Field of research and application	Date of completion	Project level	Responsibility
1	Research for Electromagnetic Valve train System	2009	National Science Council (NSC), Taiwan Government	Key researcher
2	Research for VE- EDC system in Diesel engine	2006	HCMUTE University distinguished project	Director
3	Research for ABS system in vehicle	2004	HCMUTE University distinguished project	Director
4	Research Advisor software in emission and fuel consumption calculation in engine	2013	HCMUTE University distinguished project	Director
5	The study on designing of valve train system for cylinder deactivation in SI engines	2014	HCMUTE University distinguished project	Director

No	Publications	Author	Publisher	Publishing date
1.	Design of a new electromagnetic valve with a hybrid PM/EM actuator in SI engines	Ly Vinh Dat, Yaojung Shiao	Journal of Marine Science and Technology, Vol. 22, No. 6, pp. 687-693, 2014, DOI: 10.6119/JMST-014-0321-4 <b>(SCI)</b>	2015
2.	A study on the performance improvement in the type VE conventional fuel distributor system	Tran Anh Tuan, Ly Vinh Dat	<i>International Journal of Mechanical Engineering and Applications, Special Issue: Transportation Engineering Technology - Part I</i> , Vol. 3, No. 1-3. 2015, pp 9-17, doi: 10.11648/j.ijmea.s.2015030103.12.	2015
3.	A Design Of Novel Valve Train System For Cylinder Deactivation in SI Engines	Ly Vinh Dat, Le Nam Anh, Tran Anh Tuan	<i>International Journal of Mechanical Engineering and Applications, Special Issue: Transportation Engineering Technology - Part II</i> , Vol. 3, No. 1-3. 2015, pp 17-21, doi: 10.11648/j.ijmea.s.2015030301.13	2015
4.	Evaluating efficiency of converting from conventional fuel system (VE) to VE-EDC in Hyundai H 100	Tran Anh Tuan, Ly Vinh Dat	<i>Journal of Transportation Science and Technology, Hochiminh City University of Transport</i> , No.13, 2014	2014
5.	Rating Economy of Conversion of Fuel Sypply System from VE to VE-EDC	Tran Anh Tuan, Ly Vinh Dat	<i>Journal of Techical Education Science</i> , HCMUTE, No.30, 2014	2014
6.	An Optimal Design for New Electromagnetic Valve in Camless Engines	Ly Vinh Dat, Yaojung Shiao, Thanh Phuc Le	<i>Applied Mechanics and Material</i> , Vols. 479-480, pp 360-364, 2014, doi:10.4028/www.scientific.net/AMM.479-480.360 <b>(EI)</b> .	2014
7.	Dynamics of New Electromagnetic Valve in Camless Engines	Ly Vinh Dat, Yaojung Shiao	<i>Applied Mechanics and Materials</i> , vol. 284-287, pp. 2044-2048, 2013. <b>(EI)</b> .	2013

8.	Design for a Novel Electromagnetic Valve for Camless Engines	Ly Vinh Dat, Yaojung Shiao	<i>Applied Mechanics and Materials</i> , vol. 284-287, pp. 1811-1815, 2013. <b>(EI)</b> .	2013
9.	The Optimal Strategies for Improving Efficiency in Camless Engines	Ly Vinh Dat, Yaojung Shiao	<i>Applied Mechanics and Materials</i> , vol. 145, pp. 83-87, 2012. <b>(EI)</b> .	2012
10.	Dynamics of Hybrid PM/EM Electromagnetic Valve in SI Engines	Ly Vinh Dat, Yaojung Shiao	<i>Journal of Vibroengineering</i> , vol. 14, no. 3, pp. 1122-1131, 2012. <b>(SCI)</b>	2012
11.	Efficiency Improvement for an Unthrottled SI Engine at Part Load	Ly Vinh Dat, Yaojung Shiao	<i>International Journal of Automotive Technology</i> , vol. 13, no. 6, pp. 885-893, 2012. <b>(SCI)</b> .	2012
12.	A New Electromagnetic Valve Train with PM/EM Actuator in SI Engines	Ly Vinh Dat, Yaojung Shiao	<i>Transactions of the Canadian Society for Mechanical Engineering</i> , vol 37, no 1, 2013 <b>(SCI)</b> .	2013
13.	Actuator Control for a New Hybrid EMV in SI Engines	Ly Vinh Dat, Yaojung Shiao	<i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , doi: 10.1177/0954407012471279 <b>(SCI)</b> .	2012
14.	An Optimal Design for New Electromagnetic Valve in Camless Engines	Ly Vinh Dat, Yaojung Shiao	2013 International Applied Science and Precision Engineering Conference (ASPEC), Oct. 18-22, 2013, Nantou, Taiwan	2013
15.	Application of Neural Networks to Design the Controller for Autonomous Vehicles by Learning Driver's Behavior	Thanh Phuc Le, I. Stiharu and Ly Vinh Dat	International Conference on Control, Automation and Information Sciences (ICCAIS 2013), Nov. 25-	2013

			28 2013, Nha Trang, Vietnam	
16.	An Efficiency Improvement for an Unthrottled SI Engine at Part Load	Ly Vinh Dat, Yaojung Shiao	<i>The 16th National Conference on Vehicle Engineering</i> , Nov. 2011, Taipei, Taiwan.	2011
17.	Using Cylinder Deactivation for Efficiency Improvement in SI Engine	Ly Vinh Dat, Yaojung Shiao	<i>The 21st National Conference on Combustion Science and Technology</i> , March 2011, Huwei, Yunlin, Taiwan	2011
18.	Optimization of Intake Valve Timing for an Unthrottle Engine with Electromechanical Valve Train	Ly Vinh Dat, Yaojung Shiao	<i>J The 20th National Conference on Combustion Science and Technology</i> , March 2010, Tainan, Taiwan	2010
19.	E Optimization Intake Valve Timing in Camless Engine with Electromagnetic Valvetrain	Ly Vinh Dat, Yaojung Shiao	<i>International Conference On Green Technology And Sustainable Development</i> , Sep. 2012 Hochiminh City, Vietnam	2012
20.	Modeling and Control of Variable Intake Valve Timing for Unthrottled Camless Engines	Ly Vinh Dat, Yaojung Shiao	<i>International Conference on Electronic and Materials</i> , August 2012, Shanghai, China	2012
21.	Dynamics of New Electromagnetic Valve in Camless Engines	Ly Vinh Dat, Yaojung Shiao	<i>The 2nd International Conferenece on Engineering and Techonology Innvation</i> , Nov. 2012, Kaoshiung, Taiwan	2012
22.	Design for a Novel Electromagnetic Valve for Camless Engines	Ly Vinh Dat, Yaojung Shiao	<i>The 2nd International Conferenece on Engineering and Techonology Innvation</i> ,	2012

			Nov. 2012, Kaoshiung, Taiwan	
23.	Design and Test for a Bypass-Type Hybrid Electromagnetic Valve with Optimal Armature Release	Ly Vinh Dat, Yaojung Shiao	The 18th National Conference on Vehicle Engineering, Dec. 13, 2013, NPUST., Pingtung, Taiwan	2013
24.	Experimental Investigation Of Hysteresis Phenomena On Magnetorheological Brake Applied On Bike Trainer	Yaojung Shiao, Nguyen Quang Anh, NguyenThai Son, Ly Vinh Dat	<i>2<sup>nd</sup> International Conference On Green Technology And Sustainable Development</i> , Sep. 2014 Hochiminh City, Vietnam	2014