



Reference code	11743
(To be filled by NAFOSTED)	

SCIENTIFIC CURRICULUM VITAE

1. Personal details

Full name	Nguyễn Quốc Hùng	Year of birth	13/09/1979
Academic title	Dr	Sex	Male
Administrative position	Main Lecturer	ID Number	090691260
Department	Bộ môn Công nghệ thông tin / Khoa Công nghệ Thông tin Kinh Doanh		
Institution	Unvercity of Economics Ho Chi Minh City		
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2. Qualifications

No	Years	Academic institutions	Major/ Specialty	Academic degree
1	04/2012-04/2014	Department of Foreign Languages - Thai Nguyen University	English language	The deggree of Bachelor
2	09/1998-09/2003	Thai Nguyen University of Technology	Information Technology	Engineer
3	10/2007-10/2009	Thai Nguyen University of Information and Communication Technology	Computer Science	Masters
4	12/2010-12/2016	Hanoi University of Science and Technology	Computer Science	Ph.D.

3. Professional experience

No	Years	Institution	Professional address	Position
1	09/2003-09/2009	Thai Nguyen Department of Science and Technology	Số 513, đường Lương Ngọc Quyến, TPTN	Chief of database
2	09/2009-12/2016	Thai Nguyen Medical colleges	Phường Thịnh Đán - Thành Phố Thái nguyên	Vice-Head Department of Student Affairs

3	12/2016-02/2020	Thai Nguyen Medical colleges	Phường Thịnh Đán - Thành Phố Thái nguyên	Head Division of Information Technology and Library
4	3/2020-nay	Univercity of Economics Ho Chi Minh City	59C Nguyễn Đình Chiểu, quận 3, TP. Hồ Chí Minh	Main Lecturer

4. Language (rating: A- Poor/ deficient; B- Fair; C- Sufficient; D- Fluent)

Language	Reading	Writing	Speaking
English	D	D	D
French	B	B	B

5. Expertise and research interests

5.1. Main research orientation.

1. Big Data Analysis (BigData): Using Artificial Intelligence (AI) and Blockchain Encryption Technology (Blockchain) towards applications in the fields of economy - society, business, science, engineering, technology, medicine, agriculture, etc 2. Robotics: Modeling and identification; Robot control; Mobile robotics; Mobile sensor networks; Robot sensing and data fusion; Localization, navigation and mapping; Mechanism design and applications for Robot. 3. Vision: Image/video analysis; Image-based modeling; Stereo and Structure from motion; Feature extraction, grouping and segmentation; Scene analysis; Object recognition; Human-computer interaction; Tracking and surveillance; Vision for robots; Activity/behavior recognition. 4. Research in 2D and 3D Computer Vision Techniques to Support Medical Diagnostics (Collaboration): Endoscopic Analysis Supports Endoscopic and Endoscopic Gastrointestinal Digestion (Camera Film Capsule Bluetound, Brain MRI to diagnose focal head support (FCD).

5.2. List of research projects

List all the research grants/ projects received the last 5 years.

No	Project name	Funding institution & funded amount	Project duration	Position/ role in the project
1	3D Object Locate the app using Kinect navigational aids blind people	Hanoi University of Science and Technology	01/2012-12/2012	Members
2	Visually impaired people assistance using multimodal technologies.	International Cooperation of the University of Vietnam - Belgium VLIR	05/2012-05/2015	Members
3	Research and development systems to detect and recognition objects in the Small Pervasive Environments.	Ministry of Education & Training	06/2011-06/2013	Members
4	Research, develop advertising system suggested in the photo sharing service online.	Ministry of Science & Technology	06/2012-12/2012	Members
5	Research Building System to High-Performance Big Data Computing using vHPC (Virtual High Performance Computing)	Univerciity of Enconomic Ho Chi Minh City	08/2020-08/2021	Project leader

6	Developing an auto time-lapse system in a long term observation using motion-based estimation technique	Univerciity of Enconomic Ho Chi Minh City	08/2020-08/2021	Project leader
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5.3. Publications and accomplishments

No	Authors	Year	Publications	Name of publishers/ No, Vol, Page	ISSN/ISBN	Proof (*)	Notes
1	Article(s) in ISI-covered journals						
1.1	V. B. Surya Prasath, Dang Ngoc Hoang Thanh, Nguyen Quoc Hung, Le Minh Hieu	2020	Multiscale Gradient Maps Augmented Fisher Information-Based Image Edge Detection	IEEE Access	2169-3536	Yes	
1.2	Quoc-Hung Nguyen, Hai Vu, Thanh-Hai Tran, Quang-Hoan Nguyen	2016	Developing a way-finding system on mobile robot assisting visually impaired people in an indoor environment	Multimedia Tools and Applications, Springer	1380-7501	Yes	
2	Article(s) in other international journals						
2.1	Quoc Hung NGUYEN, VU Hai, TRAN Thi Thanh Hai, Quang Hoan NGUYEN	2014	Mapping Services in Indoor Enviroments based on Image Sequences	The 5th International Conference on Communications and Electronics, IEEE	978-1-4799-5050-8	Yes	
2.2	Quoc Hung NGUYEN, Hai VU, Thi Thanh Hai TRAN, DAVID Van Hame, WILFRIED Philips, PETER Veelaert, Quang Hoan NGUYEN	2014	A Visual SLAM System on Mobile Robot Supporting Localization Services to Visually Impaired People	International Workshop on Computer Vision and Robotics (ACVR) in the 13th conference ECCV, Springer.	978-3-319-10583-3	Yes	
2.3	Quoc Hung NGUYEN, Hai VU, Thi Thanh Hai TRAN, Quang Hoan NGUYEN	2014	A Vision-based system supports mapping services for visually impaired people in indoor environments	The 13th International Conference on Control, Automation, Robotics and Vision, ICARCV 2014, IEEE	978-1-4799-5198-7	Yes	

2.4	Quoc Hung NGUYEN, Thi Thanh - Hai TRAN, Thi Lan LE, Quang Hoan NGUYEN	2013	Object detection and classification for advertising service based on image content	Asia-Link Symposium, Institut Teknologi Bandung - Indonesia	2186-7631	Yes	
2.5	Quoc Hung NGUYEN, Thi Thanh Hai TRAN	2013	Scene description for visually impaired in outdoor environment	International Conference on Advanced Technologies and Communication ATC, IEEE	2162-1020	Yes	
3	National/International Conference(s)						
3.1	Nguyen Quoc Hung, Thai Kim Phung, Phan Hien, Dang Ngoc Hoang Thanh	2020	AI and Blockchain: potential and challenge for building a smart E-Learning system in Vietnam	INTERNATIONAL CONFERENCE ON COMPUTATIONAL RESEARCH AND DATA ANALYTICS		No	
3.2	Nguyễn Quốc Hùng, Vũ Hải, Trần Thị Thanh Hải, Nguyễn Quang Hoan	2016	Đánh giá hiệu năng giải thuật FAB-MAP* định vị robot trong nhà sử dụng thông tin hình ảnh	FAIR - Fundamental and Applied IT Research	978-604-913-472-2	Yes	
3.3	Nguyễn Quốc Hùng, Nguyễn Quang Hoan	2016	Robot tự hành trợ giúp dẫn đường người khiếm thị	Hội thảo toàn quốc về Điện tử, Truyền thông và Công nghệ thông tin REV-2016	978-604-931-252-3	Yes	
3.4	Quoc-Hung NGUYEN, Thi Thanh - Hai TRAN, Quang Hoan NGUYEN and Van Nam HOANG	2015	Phát hiện và ước lượng khoảng cách tới vật cản trợ giúp cảnh báo cho người khiếm thị	Hội thảo gia về về Điện tử, Truyền thông và Công nghệ thông tin ECIT-2015	978-604-67-0635-9	Yes	
3.5	Quoc Hung NGUYEN, Hai VU, Thi Thanh Hai TRAN, Quang Hoan NGUYEN	2014	Improving localization precision of visual SLAM using Kalman filter	Fundamental and Applied IT Research - FAIR	978-604-913-300-8	Yes	

3.6	Quoc Hung NGUYEN , Hai VU, Thi Thanh Hai TRAN, Dinh Van NGUYEN, Van Nam HOANG, Quang Hoan NGUYEN	2014	Nghiên cứu và phát triển hệ thống trợ giúp định hướng cho người khiếm thị trong môi trường cảm thụ diện hẹp sử dụng Robot.	National Conference on Electronics, Communications and Information Technology - ECIT2014	978-604-67-0349-5	Yes	
3.7	Quoc Hung NGUYEN , Thi Thanh Hai TRAN, Van Ngoc NGUYEN, Quang Hoan NGUYEN	2013	Objectness and Gist features: are they good for multiclass object classification	Fundamental and Applied IT Research - FAIR	978-604-913-165-3	Yes	
4	Article(s) in national scientific journals						
4.1	Nguyễn Quốc Hùng, Trần Thị Thanh Hải, Vũ Hải, Hoàng Văn Nam, Nguyễn Quang Hoan	2016	Nghiên cứu phương pháp phát hiện và ước lượng khoảng cách vật cản ứng dụng cho bài toán robot dẫn đường trợ giúp người khiếm thị	Tạp chí Khoa học công nghệ Thông tin và Truyền thông, Học viện Công nghệ Bưu chính Viễn thông	2525-2224	Yes	
4.2	Quoc Hung NGUYEN, Hai VU, Thi Thanh Hai TRAN, Quang Hoan NGUYEN	2014	A vision -based system for autonomous Map Building and Localization	Journal of Science and Technology Technical Universities	0868-3980	Yes	
4.3	Quoc-Hung NGUYEN and Hai VU and Thanh-Hai TRAN and Quang-Hoan NGUYEN	2014	Automatic Localization and Navigation Assistance for Visually Impaired People Using Robot	Journal of Science and Technology (JST- Le Quy Don University)	1859-0209	Yes	
4.4	Quoc Hung NGUYEN , Thi Thanh Hai TRAN, Thi Lan LE, Hai VU, Ngoc Hai PHAM, Quang Hoan NGUYEN	2013	Object classification: A comparative study and applying for advertisement services based on image content	Journal of Science and Technology Technical Universities	0868-3980	Yes	
5	Others (monographs, patents, scientific awards...)						

5.1	Đặng Ngọc Hoàng Thành, Nguyễn Quốc Hùng, Nguyễn Hoàng Hải	2020	Lập trình hướng đối tượng C++	Nhà xuất bản Đại học quốc gia Hà Nội	978-604-9936-80-7	Yes	
5.2	Hoàng Anh Tuấn, Nguyễn Thị Nguyệt Minh, Hoàng Thị Thu Hoài, Bế Thu Hà, Nguyễn Quốc Hùng	2016	Giáo trình tiếng Anh chuyên ngành	Nhà xuất bản Đại học Thái Nguyên	978-604915-392-1	Yes	

Applicant's Institution
(if other than research hosting institution)

Hồ Chí Minh, 16/09/2020
Applicant

Nguyễn Quốc Hùng