**Staff Curriculum Vitae**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Name | *Nguyễn Hồng Quang* | | | | | | |
| Position | *Giảng viên, Bộ môn Kỹ thuật Máy tính* | | | | | | |
| Academic career | *Tiến sỹ , Công nghệ thông tin*  *Thạc sỹ , Xử lý thông tin và truyền thông*  *Kỹ sư , Công nghệ thông tin* | | | *trường Đại học Avignon*  *trường Đại học Bách khoa Hà Nội*  *trường Đại học Bách khoa Hà Nội* | | | *2008*  *2003*  *2000* |
| Employment | *Position* | | | *Employer* | | | *Period* |
| Research and development projects over the last 5 years | *Name of project or research focus*  *Period and any other information*  *Partners, if applicable*  *Amount of financing* | | | | | | |
| Industry collaborations over the last 5 years | *Project title*  *Partners* | | | | | | |
| Patents and proprietary rights | *Title* | |  | | | *Year* | |
| Important publications over the last 5 years | *Selected recent publications from a total of approx. : 66*  *Author(s) : Binh P Nguyen and Hung N Pham and Hop Tran and Nhung Nghiem and Quang H Nguyen and Trang TT Do and Cao Truong Tran and Colin R Simpson*  *Title : Predicting the onset of type 2 diabetes using wide and deep learning with electronic health records*  *Any other information : https://www.sciencedirect.com/science/article/pii/S016926071930327X*  *Publisher : Elsevier*  *Year of publication : 2019*  *Journal Computer methods and programs in biomedicine, volume 182, page 105055*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Thanh-Hoang Nguyen-Vo and Nguyen Quoc Khanh Le and Trang TT Do and Susanto Rahardja and Binh P Nguyen*  *Title : iEnhancer-ECNN: identifying enhancers and their strength using ensembles of convolutional neural networks*  *Any other information : https://link.springer.com/article/10.1186/s12864-019-6336-3*  *Publisher : BioMed Central*  *Year of publication : 2019*  *Journal BMC genomics, volume 20, page 1-10*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Binh P Nguyen and Son D Dao and Balagopal Unnikrishnan and Rajan Dhingra and Savitha Rani Ravichandran and Sravani Satpathy and Palaparthi Nirmal Raja and Matthew CH Chua*  *Title : Deep learning models for tuberculosis detection from chest X-ray images*  *Any other information : https://ieeexplore.ieee.org/abstract/document/8798798/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Binh P Nguyen and Quang H Nguyen and Giang-Nam Doan-Ngoc and Thanh-Hoang Nguyen-Vo and Susanto Rahardja*  *Title : iProDNA-CapsNet: identifying protein-DNA binding residues using capsule neural networks*  *Any other information : https://link.springer.com/article/10.1186/s12859-019-3295-2*  *Publisher : BioMed Central*  *Year of publication : 2019*  *Journal BMC bioinformatics, volume 20, page 1-12*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Ramasamy Muthuraman and Laxman Singh and Gopa Sen and Anh Cuong Tran and Binh P Nguyen and Matthew Chua*  *Title : Diabetic retinopathy detection using deep learning*  *Any other information : https://dl.acm.org/doi/abs/10.1145/3380688.3380709*  *Publisher :*  *Year of publication : 2020*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Trang TT Do and Yijing Wang and Sin Swee Heng and Kelly Chen and Wei Hao Max Ang and Conceicao Edwin Philip and Misha Singh and Hung N Pham and Binh P Nguyen and Matthew CH Chua*  *Title : Breast cancer prediction using feature selection and ensemble voting*  *Any other information : https://ieeexplore.ieee.org/abstract/document/8823106/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Binh P Nguyen and Trung B Nguyen and Trang TT Do and James F Mbinta and Colin R Simpson*  *Title : Stacking segment-based CNN with SVM for recognition of atrial fibrillation from single-lead ECG recordings*  *Any other information : https://www.sciencedirect.com/science/article/pii/S174680942100269X*  *Publisher : Elsevier*  *Year of publication : 2021*  *Journal Biomedical Signal Processing and Control, volume 68, page 102672*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Hung N Pham and Trang TT Do and Kelvin Yi Jie Chan and Gopa Sen and Andy YK Han and Pier Lim and Teresa Siew Loon Cheng and Quang H Nguyen and Binh P Nguyen and Matthew CH Chua*  *Title : Multimodal detection of Parkinson disease based on vocal and improved spiral test*  *Any other information : https://ieeexplore.ieee.org/abstract/document/8823309/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Trang TT Do and Thanh B Chu and Loan V Trinh and Dung H Nguyen and Cuong V Phan and Tuan A Phan and Dung V Doan and Hung N Pham and Binh P Nguyen and Matthew CH Chua*  *Title : Music genre classification using residual attention network*  *Any other information : https://ieeexplore.ieee.org/abstract/document/8823100/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Hung N Pham and Chin Yang Koay and Tanmoy Chakraborty and Sudhanshu Gupta and Boon Leong Tan and Huaqing Wu and Apurva Vardhan and Quang H Nguyen and Nirmal Raja Palaparthi and Binh P Nguyen and Matthew CH Chua*  *Title : Lesion segmentation and automated melanoma detection using deep convolutional neural networks and XGBoost*  *Any other information : https://ieeexplore.ieee.org/abstract/document/8823129/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Hung N Pham and Anurag Chatterjee and Balasubramanian Narasimhan and Choon Wee Lee and Diksha Kumari Jha and Edric Yeng Fai Wong and Stella Ellyanti and Quang H Nguyen and Binh P Nguyen and Matthew CH Chua*  *Title : Predicting hospital readmission patterns of diabetic patients using ensemble model and cluster analysis*  *Any other information : https://ieeexplore.ieee.org/abstract/document/8823441/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Thanh-Hoang Nguyen-Vo and Quang H Nguyen and Trang TT Do and Thien-Ngan Nguyen and Susanto Rahardja and Binh P Nguyen*  *Title : iPseU-NCP: Identifying RNA pseudouridine sites using random forest and NCP-encoded features*  *Any other information : https://bmcgenomics.biomedcentral.com/articles/10.1186/s12864-019-6357-y*  *Publisher : BioMed Central*  *Year of publication : 2019*  *Journal BMC genomics, volume 20, page 1-11*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Tuan-Dung Cao*  *Title : A novel method for recognizing vietnamese voice commands on smartphones with support vector machine and convolutional neural networks*  *Any other information : https://www.hindawi.com/journals/wcmc/2020/2312908/*  *Publisher : Hindawi*  *Year of publication : 2020*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Nguyen Quoc Khanh Le and Quang H Nguyen and Xuan Chen and Susanto Rahardja and Binh P Nguyen*  *Title : Classification of adaptor proteins using recurrent neural networks and PSSM profiles*  *Any other information : https://link.springer.com/article/10.1186/s12864-019-6335-4*  *Publisher : BioMed Central*  *Year of publication : 2019*  *Journal BMC genomics, volume 20, page 1-9*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Kim Chwee Lim and Swee Heng Sin and Chien Wei Lee and Weng Khin Chin and Junliang Lin and Khang Nguyen and Quang H Nguyen and Binh P Nguyen and Matthew Chua*  *Title : Video-based skeletal feature extraction for hand gesture recognition*  *Any other information : https://dl.acm.org/doi/abs/10.1145/3380688.3380711*  *Publisher :*  *Year of publication : 2020*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Loan Trinh Van and Quang H Nguyen and Thuy Dao Thi Le*  *Title : Emotion Recognition with Capsule Neural Network*  *Any other information : https://www.academia.edu/download/81614473/pdf.pdf*  *Publisher : TECH SCIENCE PRESS*  *Year of publication : 2022*  *Journal COMPUTER SYSTEMS SCIENCE AND ENGINEERING, volume 41, page 1083-1098*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Nguyen Duc Thang and Nguyen Viet Dung and Tran Vinh Duc and Anh Nguyen and Quang H Nguyen and Nguyen Tu Anh and Nguyen Ngoc Cuong and Le Tuan Linh and Bui My Hanh and Phan Huy Phu and Nguyen Hoang Phuong*  *Title : Building a X-ray database for mammography on vietnamese patients and automatic detecting ROI using mask-RCNN*  *Any other information : https://link.springer.com/chapter/10.1007/978-3-030-49536-7\_27*  *Publisher : Springer, Cham*  *Year of publication : 2021*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Wai Kin Koh and Quang H Nguyen and Youheng Ou Yang and Tianma Xu and Binh P Nguyen and Matthew Chin Heng Chua*  *Title : End-to-End Hand Rehabilitation System with Single-Shot Gesture Classification for Stroke Patients*  *Any other information : https://link.springer.com/chapter/10.1007/978-3-030-76620-7\_5*  *Publisher : Springer, Cham*  *Year of publication : 2021*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Tuan-Dung Cao and Quang H Nguyen*  *Title : An Approach for Building Effective Real Estate Chatbots in Vietnamese*  *Any other information : https://link.springer.com/chapter/10.1007/978-3-030-49536-7\_19*  *Publisher : Springer, Cham*  *Year of publication : 2021*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Mengnan Gong and Tao Liu and Ou Yang Youheng and Binh P Nguyen and Matthew Chin Heng Chua*  *Title : Ensemble of Convolutional Neural Networks for the Detection of Prostate Cancer in Multi-parametric MRI Scans*  *Any other information : https://link.springer.com/chapter/10.1007/978-3-030-49536-7\_20*  *Publisher : Springer, Cham*  *Year of publication : 2021*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Thai Q Ha and Quang H Nguyen and Binh T Nguyen and Sang V Tran and Nam T Phuong and Loan V Trinh*  *Title : A novel method for automatic detection of basic shapes on whiteboard images using faster RCNN*  *Any other information : https://ieeexplore.ieee.org/abstract/document/9023799/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Binh P Nguyen and Minh T Nguyen and Matthew CH Chua and Trang TT Do and Nhung Nghiem*  *Title : Bone age assessment and sex determination using transfer learning*  *Any other information : https://www.sciencedirect.com/science/article/pii/S0957417422003591*  *Publisher : Pergamon*  *Year of publication : 2022*  *Journal Expert Systems with Applications, volume 200, page 116926*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Hoang V Tran and Quang H Nguyen*  *Title : iAnt: Combination of Convolutional Neural Network and Random Forest Models Using PSSM and BERT Features to Identify Antioxidant Proteins*  *Any other information : https://www.ingentaconnect.com/content/ben/cbio/2022/00000017/00000002/art00007*  *Publisher : Bentham Science Publishers*  *Year of publication : 2022*  *Journal Current Bioinformatics, volume 17, page 184-195*  *Selected recent publications from a total of approx. : 66*  *Author(s) : QH Nguyen and K Valcova and VG Zakirova and AA Larionova and NI Lapidus*  *Title : Western science, religion and Vietnamese traditional culture: harmony or antagonism?*  *Any other information : https://elibrary.ru/item.asp?id=43306235*  *Publisher : Slovenska Vzdelavacia a Obstaravacia sro*  *Year of publication : 2020*  *Journal XLinguae, volume 13, page 94-113*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Tuan-Dung Cao*  *Title : Applying matrix factorization for predicting click through rate on advertizing in apps on mobile devices*  *Any other information : https://link.springer.com/chapter/10.1007/978-3-030-37497-6\_15*  *Publisher : Springer, Cham*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Thanh X Le and An T Le and Quang H Nguyen*  *Title : Emotional Vietnamese Speech Synthesis Using Style-Transfer Learning*  *Any other information : https://www.researchgate.net/profile/Thanh-Le-130/publication/361366465\_Emotional\_Vietnamese\_Speech\_Synthesis\_Using\_Style-Transfer\_Learning/links/62ac519e40d84c1401b1f214/Emotional-Vietnamese-Speech-Synthesis-Using-Style-Transfer-Learning.pdf*  *Publisher : TECH SCIENCE PRESS*  *Year of publication : 2023*  *Journal COMPUTER SYSTEMS SCIENCE AND ENGINEERING, volume 44, page 1263-1278*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Benjamin S Baumer and Quang Nguyen and Gregory J Matthews*  *Title : CRAN Task View: Sports Analytics*  *Any other information : https://cloud.r-project.org/web/views/SportsAnalytics.html*  *Publisher : Comprehensive R Archive Network (CRAN)*  *Year of publication : 2022*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang Nguyen and Hannah Butler and Gregory J Matthews*  *Title : An Examination of Sport Climbing's Competition Format and Scoring System*  *Any other information : https://arxiv.org/abs/2111.05310*  *Publisher :*  *Year of publication : 2021*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang Nguyen*  *Title : Poisson Modeling and Predicting English Premier League Goal Scoring*  *Any other information : https://arxiv.org/abs/2105.09881*  *Publisher :*  *Year of publication : 2021*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Alysa Tan and Bryan Kwek and Kenneth Anthony and Vivian Teh and Yifan Yang and Quang H Nguyen and Binh P Nguyen and Matthew Chin Heng Chua*  *Title : Improving 3D Hand Pose Estimation with Synthetic RGB Image Enhancement Using RetinexNet and Dehazing*  *Any other information : https://link.springer.com/chapter/10.1007/978-3-030-76620-7\_8*  *Publisher : Springer, Cham*  *Year of publication : 2021*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Quang V Le*  *Title : Ensemble of Deep Learning Models for In-Hospital Mortality Prediction*  *Any other information : https://link.springer.com/chapter/10.1007/978-3-030-64719-3\_44*  *Publisher : Springer, Cham*  *Year of publication : 2020*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Nguyen Duc Thang and Nguyen Viet Dung and Tran Vinh Duc and Anh Nguyen and Quang H Nguyen and Nguyen Tu Anh and Nguyen Ngoc Cuong and Le Tuan Linh and Bui My Hanh and Phan Huy Phu and Nguyen Hoang Phuong*  *Title : Building a X-ray Database for Mammography on Vietnamese Patients and automatic Detecting ROI Using*  *Any other information : https://books.google.com/books?hl=en&lr=&id=t1juDwAAQBAJ&oi=fnd&pg=PA314&dq=info:NtVuOGSSZ5sJ:scholar.google.com&ots=B17yl1oXcM&sig=QZ02iyUyDWe4izPKnEc24Owp6vM*  *Publisher : Springer Nature*  *Year of publication : 2020*  *Journal Soft Computing for Biomedical Applications and Related Topics, volume 899, page 315*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Quang H Nguyen and Trang TT Do and Abu Mathew Thoppan and Chee Farr Chong and Indu Arya and Kamal Manisha Maddi and Siddharth Pandey and Viknesh Kumar Balakrishnan and Hung N Pham and Binh P Nguyen and Matthew CH Chua*  *Title : Effective Arrhythmia Detection using Majority Voting*  *Any other information : https://ieeexplore.ieee.org/abstract/document/8823458/*  *Publisher : IEEE*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Chu Bá Thành and Trịnh Văn Loan and Nguyễn Hồng Quang*  *Title : MÔ HÌNH GMM ĐỊNH DANH TỰ ĐỘNG MỘT SỐ LÀN ĐIỆU DÂN CA QUAN HỌ BẮC NINH*  *Any other information :*  *Publisher :*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Nguyễn Hồng Quang and Trịnh Văn Loan and Phạm Ngọc Hưng*  *Title : NHẬN DẠNG PHƯƠNG NGỮ TIẾNG VIỆT SỬ DỤNG MẠNG NƠRON TÍCH CHẬP CNN*  *Any other information :*  *Publisher :*  *Year of publication : 2019*  *Selected recent publications from a total of approx. : 66*  *Author(s) : Nguyễn Hồng Quang and Trịnh Văn Loan and Phạm Ngọc Hưng and Hà Quang Thái and Bùi Trung Anh and Phan Công Mạnh*  *Title : PHÂN LOẠI BỆNH RUNG NHĨ DÙNG XGBOOST VÀ HỌC SÂU*  *Any other information : http://jst.tnu.edu.vn/jst/article/view/129*  *Publisher :*  *Year of publication : 2018*  *Journal TNU Journal of Science and Technology, volume 189, page 85-91* | | | | | | |
| Activities in specialist bodies over the last 5 years | *Organisation* | *Role* | | | *Period* | | |
| *Membership without a specific role need not be mentioned* | | | | | | |