

Pham Van Tuan

Associate Professor, Doctor in Electronic and Communication Engineering

The University of Danang - University of Science and Technology

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Job Titles

Director, Department of Educational Testing and Quality Assurance, DUT

Vice-President, L.Y.D.I.N.C - Quality Assurance

Founder, Smart University to Smart City Laboratory

Vietnam National Education Accreditor

AUN-QA Assessor

Education and Qualifications

- 1994 – 1999: Engineering Degree in Electronic and Telecommunication, UD-DUT.
- 1999 – 2001: Master Degree in Electronic and Telecommunication, Hanoi University of Technology.
- 2002 – 2007: Doctoral Degree in Electrical Engineering, Institute of Signal Processing and Speech Communication, Graz University of Technology, Austria.
- 2007 – 2008: Post-doctoral Researcher, Institute of Signal Processing and Speech Communication, Graz University of Technology, Austria.
- 2012: Associate Professor in Electronic and Communication Engineering, UD-DUT.
- 2016: Principal Lecturer, UD-DUT

Job Experiences

- 1999 - 2002: Teaching assistant, UD-DUT
- 2002 - 2007: Research assistant, Graz University of Technology, Austria.
- 2007 - 2010: ASEA-UNINET Campus Liaison, UD-DUT, Vietnam
- 2007 - 2012: Lecturer, Electronic and Telecommunication Engineering Faculty, UD-DUT
- 2009 - 2011: Program Chair, Advanced Program in Electronic & Communication Engineering, Center of Excellence, UD-DUT, Vietnam
- 2010 - 2014: Vice-Chair, Electronic and Telecommunication Engineering Faculty, UD-DUT
- 2010 - 2018: Deputy Director, Center of Excellence, UD-DUT.
- Since 2012: Director, 3DCS Teaching Research Team, Design and Development Digital Communication System, UD-DUT.
- 2014 - 2016: Project Leader, Capstone Project Development, UD-DUT.

- Since 2014: Director, Educational Testing and Quality Assurance Department, UD-DUT
- 2010 - 2018: Project Manager, Higher Engineering Education Alliance Program (HEEAP), UD-DUT. <https://heemap.org/>
- 2012 - 2016: Project Manager, Vocational and University Leadership and Innovation Institute (VULII), UD-DUT. <https://heemap.org/vocational-and-university-leadership-and-innovation-institute-vulii>
- 2016 - 2020: Project Manager, Building University-Industry Learning and Development through Innovation and Technology Program (BUILD-IT), UD-DUT. <http://dut.udn.vn/build-it> , <https://builditvietnam.org/>
- 2016 - 2019: Project Leader, Conceive, Design, Implement, and Operate (CDIO) Framework for Higher Education, UD-DUT. <http://www.dut.udn.vn/cdio> , <http://www.cdio.org/>
- Since 2017: AUN-QA Assessor, Vietnam National Educational Accreditor
- Since 2018: Founder, Smart University to Smart City (SmU2SmC) Laboratory, UD-DUT
- Since 2019: Team Organizer, KPI Strategic Development in Higher Education, UD-DUT

Research Interests

- Smart University, Smart City
- Artificial Intelligence and Applications
- Detection, Estimation, Information Theory
- Speech/ Image/Audio/Video Processing and Applications
- IoT and AI-based Embedded System
- Higher Education Strategic KPIs Development
- Policy Innovation
- Internal Quality Assurance; External Quality Assurance
- Outcome-based Education;
- CDIO Framework for Curriculum Design and Development

Career in Research

Invited speakers at the following international events:

- Tuan V. Pham, Thu T.A. Nguyen, “Potential Framework of AI application in Medical Diagnosis Research,” Virtually International Conference on Health Informatics, Medical, Biological Engineering, and Pharmaceutical (HIMBEP 2020), Jakarta, Indonesia
- Tuan V. Pham, Tan Kay Chuan, “AUN-QA Approach to 4.0 Era,” International Conference on University Performance Metrics, Aug. 2020, Hanoi, Vietnam

- Tuan V. Pham, Thu T.A. Nguyen, “From Smart University to Smart City: Framework and Applications,” Smart City Summit 2019, Oct., 2019, Danang, Vietnam
- Thu T.A. Nguyen, Tuan V. Pham, “Smart University: From Theoretical Models to Realistic Proposal to Adapt IR 4.0 and Education,” Danang Smart City Experiences and Innovations Workshop (SCEI 2019), Mar. 2019, Danang, Vietnam

PC, LOC, Chairs at the following international conferences

- Program Committee, the 1st Smart City Experiences and Innovation (SCEI 2019), Danang
- Program Committee, the 12th IEEE-RIVF International Conference on Computing and Communication Technologies (RIVF 2016)
- Program Committee, the 2014 National Conference on Electronics, Communications and Information Technology (ECIT2014)
- Technical Committee Chair / LOC, the 2012 International Conference on BioSciences and BioElectronics (ICBSBE 2012)
- Session Chair, the 2012 UK-VN Advanced Surveillance System Workshop (ASSW2012)
- LOC, the 2011 IEEE International Conference on Advanced Technologies for Communications (ATC 2011)
- Session Chair / LOC, the 2011 Global Information Infrastructure Symposium (GIIS 2011)
- Session Chair, the 2012 IEEE International Conference on Communications and Electronics (ICCE 2010)
- LOC, the 2010 Digital Signal Processing Summer School (DSPSS 2010)
- LOC, the 6th IEEE-RIVF International Conference on Computing and Communication Technologies (RIVF 2009)

Career in Quality Assurance

Tuan is an active AUN-QA Assessor who experienced QA assessment in HEI, ASEAN.. He is also a senior accreditor of the VNU-CEA (<http://cea.vnu.edu.vn/en>). He has co-lead quality assessment at the program and institutional levels in Vietnam. Tuan functions as university Project Managers and Leaders of most international QA projects such as CDIO, HEEAP, VULLI, BUILD-IT and others at UD-DUT.

Invited speakers at the QA international conferences:

- Temasek Foundation International@10 Conceive-Design-Implement-Operate (CDIO) Forum 2017. Talk: *CDIO Journey: Training Activities - Outcomes - Challenges*

- ONESQA Academic Conference 2019 “Quality Assurance for Educational Quality Enhancement in the 21st Century”. Talk: *External Quality Assurance in Vietnam*.
- AUN-QA INTERNATIONAL CONFERENCE 2019 . Talk: *Sharing experiences of the Programme and Institution assessed AUN-QA*
- AUN-QA INTERNATIONAL CONFERENCE 2020: Talk: *Building Internal Quality Assurance system in HEIs* - Plenary I - IQA & EQA Policy, System

Published book chapters and conference papers in the QA domain.

- Quality Assurance in Vietnamese Higher Education: Policy and Practice in the 21st Century 1st ed. 2019 Edition
 - Chapter 9: Institutional and Programme Accreditation
 - Chapter 10: Digital Innovation and Impact on Quality Assurance<https://www.amazon.com/Quality-Assurance-Vietnamese-Higher-Education/dp/3030268586>
- Alignment and Mapping Between CDIO Standards and AUN-QA Criteria
<http://cdio.org/content/parallel-session-21-curriculum-design-principles-and-strategies>
- A Study on CDIO-Based STEAM Program Design and Implementation
<http://cdio.org/content/parallel-session-121-implementation-experiences>

Teaching Experiences

- Since 2009: Lecturer of Advanced Program in Electronic & Communication Engineering (ECE) and Embedded System (ES), Center of Excellence, DUT:
 - EE 215 - Introduction to Electrical Engineering
 - EE 233 - Circuit Theory
 - EE 235 - Continuous Time Linear Systems
 - EE 271 - Digital Circuits & Systems
 - EE 341 - Discrete Time Linear Systems
 - EE 442 - Digital Signals and Filtering
 - EE 443 - Design & App of Digital Signal Processors
 - EE 416 - Random Signals for Communications and Signal Processing
 - ECE 455 / CSE 446 - Artificial Intelligence
- Since 2009: Lecturer of Undergraduate Program in Electronic and Telecommunication, DUT:
 - Signal and System
 - Digital Signal Processing
 - Digital Filter Design
 - Multimedia Engineering
- Since 2010: Lecturer of Master Program in Electronic and Telecommunication, DUT:
 - Computer Based Speech Processing

Doctoral/Master Students

- Hoàng Lê Uyên Thục, *Dissertation* “Intelligent Video Analysis for Human Behavior”, University of Washington and The University of Danang - University of Science and Technology, 2011 - 2016.
- Nguyễn Thị Khánh Hồng, *Dissertation* “Low-cost embedded system for video processing”, Nice Sophia Antipolis and The University of Danang - University of Science and Technology, 2011 - 2015
- Trần Đức Hải, *Master Thesis*, “Study on reverberant reduction for speech signal”, 2012
- Ngô Thị Ý, *Master Thesis*, “Video-based fall detection”, 2012
- Huỳnh Trọng Nguyên, *Master Thesis*, “Reverberant compression for improving speech quality”, 2011
- Thái Văn Tiến, *Master Thesis*, “Echo cancellation design using DSP TMS320C6713”, 2011
- Trương Lê Phương Anh, *Master Thesis*, “Speech concealment for speech quality improvement in IP network”
- Nguyễn Thị Kim Uyên, *Master Thesis*, “Speaker segmentation and localization under harsh environments”, 2011
- Phạm Văn Phát, *Master Thesis*, “Noise reduction for speech enhancer”, 2011
- Ngô Minh Đức, *Master Thesis*, “Packet recovery in MPLS”, 2011
- Đoàn Xuân Phong, *Master Thesis*, “Study on SLM and its applications in reducing PAP factor in OFDM”, 2009
- Michael Stadtschnitzer, *Master Thesis*, “Reliable Voice Activity Detection Under Adverse Environments”, Graz University of Technology, 2008
- Friedrich Shaefer, *Master Thesis*, “Artificial Bandwidth Extension of Narrowband Speech”, Graz University of Technology, 2008

Research Projects

- **Design Framework of Smart University.** Project Manager: Tuan V. Pham, Project Member: Thu T.A. Nguyen. Year: 2019-2020. University Project
- **Study on Early Warning System Based on Biological Signatures for Detecting Polluted Water Resources.** Project Manager: Hồ Phước Tiến. Project Member: Phạm Văn Tuấn. No: B2014-01-17. Year: 2016 - 2018. Ministry Project
- **Study on Intelligent Video Processing for e-HealthCare. Manager:** Phạm Văn Tuấn. No: B2012-01-03. Year: 2014 - 2016. Ministry Project
- **Study on Speech Enhancement Algorithms in Fourier and Wavelet Domains.** Project Manager: Phạm Văn Tuấn. No: B2010-ĐN02-60. Year: 2011-2012. Ministry Project
- **Signal processing for robust speech quality.** Project Manager: Gernot Kubin,

Project Member: Pham Van Tuan. Participant: Graz University of Technology, Austria. No: TUG2006. Year: 2010. international Project

- **Speech Watermarking for Air Traffic Control Communication.** Project Manager: Martin Hagmueller, Project Member: Pham Van Tuan. Participant: Graz University of Technology, Austria. No: TUG2003. Year: 2009. International Project
- **Speech Enhancement for Dictation Systems.** Manager: Gernot Kubin, Project Member: Pham Van Tuan. Participant: Austrian Academy of Sciences, Austria Graz University of Technology, Austria. No: TUG2006. Year: 2008. International Project
- **Services for NOmadic Workers.** Project Manager: Gernot Kubin, Project Member: Pham Van Tuan. Participant: Graz University of Technology, Austria. No: TUG2004. Year: 2006. International Project
- **Measurable intelligent and secure semantic extraction and retrieval of multimedia data.** Project Manager: Gernot Kubin, Project Member: Pham Van Tuan. Participant: Graz University of Technology, Austria. No: TUG2005. Year: 2006. International Project

Book Publication

- Tuan V. Pham, “Wavelet Analysis for Robust Speech Processing”, VDM - Verlag Dr. Mueller publisher, ISBN:3639024168, Jun. 2008.
- Michael Neffe, Tuan V. Pham, Horst Hering, Gernot Kubin, "Speaker Segmentation for Air Traffic Control", in book Speaker Classification II, Lecture Notes in Artificial Intelligence, Springer, Sep. 2007.
- Tuan V. Pham, et al., “Quality Assurance in Vietnamese Higher Education: Policy and Practice in the 21st Century”, 1st ed. 2019 Edition
 - Chapter 9: Institutional and Programme Accreditation
 - Chapter 10: Digital Innovation and Impact on Quality Assurance

Journal/ Conference Publication

In-country

- A Comparative study on face recognition algorithm and convolutional network. Tác giả: Oanh Nguyen, Khoa Nguyen, Tuan V.Pham, Hội thảo khoa học quốc gia - Công nghệ thông tin và ứng dụng lần thứ 8 (CITA). Trang: 31-38. Năm 2019.
- Ứng dụng kỹ thuật học sâu trong phát hiện và nhận dạng khuôn mặt người. Tác giả: Oanh Nguyen, Khoa Nguyen, Duy H.Le, Tuan V.Pham. Hội thảo quốc gia Ứng dụng công nghệ mới trong Công trình Xanh (ATiGB). Trang: 338-351. Năm 2019.
- Ứng dụng mạng Nơon chập phân tần nhiều lớp và mô hình facenet trong phát hiện và nhận dạng khuôn mặt người. Tác giả: Nguyễn Lê Hồng Oanh, Nguyễn Phúc Anh Khoa, Lê Hữu Duy, Phạm Văn Tuấn. Hội nghị quốc gia lần thứ 22 về điện tử, truyền thông và công nghệ thông tin (REV-ECIT). Trang: 259-264. Năm 2019

- Nhận dạng hình mẫu hình ảnh sử dụng Mô-men Hu. Tác giả: Hoàng Lê Uyên Thực, Phạm Văn Tuấn. Tạp chí Khoa học Công nghệ ĐHĐN. Số: Số 5(114). 2017-Quyển 2. Trang 62-66. Năm 2017
- Tăng hiệu suất tốc độ xử lý khung ảnh trong hệ thống phát hiện té ngã trên platform không đồng nhất. Tác giả: Nguyen Thi Khanh Hong, Le Huu Duy, Pham Van Tuan, Cecile Belleudy. Tạp chí Khoa học Công nghệ ĐHĐN. Số: Số 6(103).2016. Trang: 11. Năm 2016.
- Nghiên cứu và chế tạo robot lau nhà thông minh. Tác giả: Trần Văn Líc, Nguyễn Bá Tuệ, Phạm Văn Tuấn. Hội thảo quốc gia 2014 về Điện tử, Truyền thông và Công nghệ thông tin. Số: ISBN: 978-604-67-0349-5. Trang: 158-164. Year 2014.
- Gaussian Mixture Model Based Object Segmentation for Fall Detection. Tác giả: Phung Lai T.K, Tuan V.Pham. Vietnam. Số: WIITC 2014. Trang: 4-11. Year 2014.
- Phát hiện và bám đuôi cá. Tác giả: Nguyễn Đình Minh Nhật, Huỳnh Như Kiên, Phạm Văn Tuấn. Hội thảo Quốc gia 2014 về Điện tử, Truyền thông, và Công nghệ thông tin. Số: ISBN: 978-604-67-0349-5. Trang: 279-284. Year 2014.
- Hệ thống nhận dạng dấu vân tay nhúng trên nền FPGA. Tác giả: Lê Văn Lợi, Lê Ngọc Ánh, Phạm Văn Tuấn. Hội thảo quốc gia 2014 về Điện tử, Truyền thông và Công nghệ thông tin. Số: ISBN: 978-604-67-0349-5. Trang: 266-272. Year 2014.
- Găng tay phiên dịch ngôn ngữ ký hiệu cho người câm điếc. Tác giả: Nguyễn Xuân Tâm, Đỗ Nguyên Nghĩa, Bùi Văn, Phạm Văn Tuấn. Hội thảo quốc gia 2014 về Điện tử, Truyền thông và Công nghệ thông tin. Số: ISBN: 978-604-67-0349-5. Trang: 329-336. Year 2014.
- Ứng dụng mạng Neuron nhân tạo nhận dạng biển số xe ô tô. Tác giả: Phan Ngọc Điệp, Trần Văn Đại, Trần Minh Tuấn, Phạm Văn Tuấn. Hội thảo quốc gia 2014 về Điện tử, Truyền thông và Công nghệ thông tin. Số: ISBN: 978-604-67-0349-5. Trang: 482-488. Year 2014.
- Hệ thống đa chức năng hỗ trợ người khuyết tật. Tác giả: Trần Quang Nam; Dương Nguyễn Khánh Nam; Nguyễn Văn Tây; Phạm Văn Tuấn. Tạp chí Khoa học Công nghệ ĐHĐN. Số: Số 1(74).2014-Quyển 2. Trang: 47. Year 2014.
- So sánh phương pháp nhận dạng hành động con người trong đoạn video quay bằng một camera dùng DTW và HMM. Tác giả: Hoàng Lê Uyên Thực ; Phạm Văn Tuấn ; Shian-Ru Ke. Tạp chí Khoa học Công nghệ ĐHĐN. Số: Số 1(74).2014-Quyển 2. Trang: 64-68. Year 2014.
- Two-stage Recognition of License Plate Characters. Tác giả: Nguyen T.H. Anh, Dinh H. Vu, Tran M. Tuan, Phan T.H. Huyen, Pham V. Tuan. The UD's Journal of Science and Technology. Số: 8[57]. Trang: 1-6. Năm 2012.
- A single camera fall detection using neural network. Tác giả: Ngo, Y.T.; Phung K.Lai; Pham, T.V.. The UD's Journal of Science and Technology. Số: 39. Trang: 270-280. Year 2012.
- Threshold-based Versus Artificial Neural Network For Fall Detection. Tác giả: Khue Tra, Viet Q.Truong, Pham, T.V.. The 5th scientific conference of Da Nang University in 2012. Số: 39. Trang: 140-145. Year 2012.

- Tổng quan về các kỹ thuật nén audio chất lượng cao MP3 và AAC dung trong thiết bị số hiện nay. Tác giả: Phạm Văn Tuấn. Tạp chí Khoa học và công nghệ - Đại học Đà Nẵng. Số: 39. Trang: 235-241. Year 2010.
- Giải pháp giảm nhiễu trong miền Wavelet để nâng cao hiệu suất nhận dạng tiếng nói tự động. Tác giả: Phạm Văn Tuấn. Tạp chí Khoa học và công nghệ - Đại học Đà Nẵng. Số: 39. Trang: 271-277. Year 2010.
- Tổng quan về các kỹ thuật nén audio chất lượng cao MP3 và AAC dùng trong thiết bị số hiện nay. Tác giả: Hoàng Lê Uyên Thực, Phạm Văn Tuấn. Tạp chí Khoa học và Công nghệ, Đại học Đà Nẵng. Số: 4[39]. Trang: 235 - 241. Năm 2010.
- Biến đổi Wavelet và ứng dụng nén ảnh. Tác giả: Phạm Văn Tuấn. Tạp chí Bưu chính Viễn thông. Số: ISSN: 0866 - 7039. Trang: 16-19. Year 2002.

International

- Tuan V. Pham, Huu Duy Le, Thu T.A.Nguyen, Thanh D.Ngo, Thuong H.N. Nguyen and Khai V. Le, "A proposed smart university model as a sustainable living lab", 5th International Conference on Green Technology and Sustainable Development (GTSD 2020) (Accepted)
- Chuong H. Vo, Jui-Chiu Chiang, Duy H. Le, Thu T. A. Nguyen and Tuan V. Pham, "Saliency prediction for 360-degree video", International Conference on Green Technology and Sustainable Development (GTSD 2020) (Accepted)
- Hien Bui Thi Thu, Duy Le Huu, Tuan V. Pham and Thu T.A.Nguyen, "Deep learning based semantic segmentation for nighttime image", 5th International Conference on Green Technology and Sustainable Development (GTSD 2020) (Accepted)
- Thu T.A.Nguyen, Minh Le, Hai Ngoc Vo, Duc Tran Hong Nguyen, Tuan Tran Anh Phuoc and Tuan V. Pham, "A Proposed Rapid Image Processing-Based Method for Fish Freshness Determination on Mobile Application", 5th International Conference on Green Technology and Sustainable Development (GTSD 2020) (Accepted)
- Dat Tan La, Quang Luong Nguyen, Huy Quang Tran, Nhat Tien Le., Thu T.A.Nguyen and Tuan V. Pham, "Design Integrated Staff Welcoming and Administration System Based on Facial Recognition for Smart University", 5th International Conference on Green Technology and Sustainable Development (GTSD 2020) (Accepted)
- Duy Le, Tuan V. Pham. "End-to-end Deep backgrounds Subtraction based on Encoder-Decoder network", 6th NAFOSTED conference on Information and computer science (NICS). Page 381-386. 2019.
- Hoang Le Uyen Thuc, Tuan V. Pham, Jenq-Neng Hwang. "An Effective Camera-based Model for Fall Monitoring of the Elderly". IEEE International Conference on System Science and Engineering (ICSSE). No: Proceeding. Pages: 48-52. Year 2017.
- Hoang Le Uyen Thuc, Shian-Ru Ke and Tuan V. Pham. "Video-based Action Recognition to Assist Mild Cognitive Impairment Prediction". International Journal of Computer Science and Information Security, ISSN 1947 5500 (ESCI). No: vol. 14(10). Pages: 24-33. Year 2016.
- Nhan D.M.Nguyen, Kien N. Huynh, Nhan V. Vo and Tuan V. Pham. "Fish Detection and

Movement Tracking". 2015 International Conference on Advanced Technologies for Communications ATC2015, 14-16 October, 2015.

- Hong Nguyen.T.K., Hassoon Fahama, Cecile. Belleudy, and Tuan.V. Pham. "Low Power Architecture Exploration for Standalone Fall Detection System Based on Computer Vision". Vietnam. No: 2014 UKSim-AMSS 8th European Modelling Symposium. Pages: 169-173. Year 2014.
- Hong Nguyen.T.K., Cecile. Belleudy, and Tuan.V. Pham. "Power Evaluation of Sobel Filter on Xilinx Platform". Monaco. No: 2014 IEEE Faible Tension Faible Consommation. Pages: 1-6. Year 2014.
- Hong Nguyen.T.K., Cecile. Belleudy, and Tuan.V. Pham. "Low Power Exploration Design Flow for Fall Detection System". France. No: GDR SOC/SIP. Pages: 143-145. Year 2014.
- Hong Nguyen.T.K., Cecile. Belleudy, and Tuan.V. Pham. "Fall Detection Application on an ARM and FPGA Heterogeneous Computing Platform". International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering. No: Vol.3, Issue 8. Pages: 11349-11357. Year 2014.
- Hong Nguyen.T.K., Cecile. Belleudy, and Tuan.V. Pham "Performance and Evaluation Sobel Edge Detection on Various Methodologies". International Journal of Electronics and Electrical Engineering. No: Vol. 2, No. 1. Pages: 15-20. Year 2014.
- Hong Thi Khanh Nguyen, Cecile. Belleudy and Tuan.V. Pham. "Low cost architecture for Fall Detection System". Cộng hòa Pháp. No: 1. Pages: 1-5. Year 2014.
- Hong Thi Khanh Nguyen, Cecile Belleudy and Tuan V. Pham. "HW/SW architecture for fall detection system. Authors". India. No: 3. Pages: 11349-11357. Year 2014.
- Hoang Le Uyen Thuc, Tuan V. Pham. "An Effective Video-based System for Human Fall Detection". International Journal of Advanced Research in Computer Engineering & Technology , ISSN: 2278 - 1323. No: volume 3 issue 8. Pages: 2820-2826. Year 2014.
- Khue Tra, Tuan V.. Pham. "Human fall detection based on adaptive background mixture model and HMM". Vietnam. No: ATC. Pages: 95-100. Year 2013.
- Phung K.Lai, Khue Tra, Tuan V. Pham "An Ultra-Low Power Consumption Wireless ECG Monitoring System". Vietnam. No: RUNSUD 2013. Pages: 1-6. Year 2013.
- Hoang Le Uyen Thuc, Shian-Ru Ke, Jenq-Neng Hwang, Tuan V. Pham, Truong Ngoc Chau . "Quasi-Periodic Action Recognition from Monocular Videos via 3D Human Models and Cyclic HMMs". 2012 International Conference on Advanced Technologies for Communications, Ha Noi, Vietnam. No: ISBN 978-1-4673-4350-3. Pages: 110-113. Year 2012.
- Le Thi My Hanh, Hoang Le Uyen Thuc, Tuan V. Pham. "A Survey on Advanced Video Based Healthcare Monitoring Systems". The 2012 International Conference on BioSciences and BioElectronics, Danang, Vietnam. No: Proceeding. Pages: 1-8. Year 2012.
- Ngo, Y.T.; Nguyen, H.V.; Tuan V. Pham. "Study on Fall Detection Based On Intelligent Video Analysis". No: Advanced Technologies for Communications (ATC). Pages: 114-117. Year 2012.
- Hoang, T.L.U.; Tuan V. Pham; Hwang, "An Effective 3D Geometric Relational Feature

- Descriptor for Human Action Recognition". J.N.. 2012 IEEE RIVF International Conference, Vietnam. No: ISBN: 978-1-4673-0308-8. Pages: 1-6. Year 2012.
- Vu H. Dinh, Tuan M. Tran, Tung T. Nguyen, Anh H. T. Nguyen, Tuan V. Pham. "A Wireless Paging System Based on Microcontroller". Vietnam. Pages: 1-6. Year 2012.
 - Hoang, L.U.T.; Hanh, Le T.M; Tuan V. Pham. "A Survey on Advanced Video-based Healthcare Monitoring Systems". The 2012 International Conference on BioSciences and BioElectronics - The UD's Journal of Science and Technology. No: Issue 61, Vol 1. Pages: 1-8. Year 2012.
 - Hoang, L.U.T.; Hwang J.N.; Tuan V. Pham. "Recent Advances On Video-Based Human Walking Gait Analyses". United Kingdom Vietnam Advance Surveillance Systems workshop 2012 - The UD's Journal of Science and Technology. No: Issue 39 Vol 1. Pages: 270-280. Year 2012.
 - Hoang, L.U.T.; Ke, S.R.; Hwang J.N.; Tuan V. Pham; Truong, N.C. "Quasi-Periodic Action Recognition from Monocular Videos via 3D Human Models and Cyclic HMMs". Vietnam. No: ATC. Pages: 110-113. Year 2012.
 - Viet Q. Truong, Hieu V. Nguyen, Tuan V. Pham "Fall detection based on Hidden Markov Model". ICBSE2012, Vietnam. No: Issue 61 Vol 1. Pages: 1-6. Year 2012.
 - Phung K. Lai, Khue Tra, Khiem D.Nguyen, Tuan V. Pham. "Combination of analog and digital solutions for wireless ECG monitor". Vietnam. No: ICBSE2012. Pages: 1-6. Year 2012.
 - Nguyen T.K. Uyen, Tuan V. Pham. "Performance Assessment of Generalized Cross-Correlation Based Algorithms for Multisource Point-Based Localization and Detection". IEEE-ATC, Vietnam. No: ISSN : 2162-1020 ISBN: 978-1-4577-1204-3. Pages: 303-306. Year 2011.
 - Erhard Rank, Tuan V. Pham, Zsolt Saffer, Michael Stark, "Comparison between DFT-, FCT-, Wavelet-, and Lattice Filter-based Noise Reduction for ASR". Vietnam. No: IEEE-RIVF. Pages: 1-6. Year 2010.
 - Tuan V. Pham, Michael Stark, Erhard Rank. "Performance Analysis Of Wavelet Subband Based Voice Activity Detection In Cocktail Party Environment". IEEE-ATC. No: ISBN: 978-1-4244-8876-6. Pages: 85-88. Year 2010.
 - Tuan V. Pham, Friedrich Schaefer, Gernot Kubin. "A Novel Implementation Of The Spectral Shaping Approach For Artificial Bandwidth Extension". IEEE-ICCE. No: ISBN: 978-1-4244-7058-7. Pages: 262 - 267. Year 2010.
 - Tuan V. Pham, Michael Starkschnitzer. "Using Artificial Neural Network For Robust Voice Activity Detection Under Adverse Conditions". Vietnam. No: IEEE-RIVF. Pages: 1-6. Year 2009.
 - Franz Pernkopf, Tuan V. Pham, Jeff A. Bilmes. "Broad Phonetic Classification Using Discriminative Bayesian Networks". Speech Communication Journal. No: ISSN: 0167-6393. Pages: 151 - 166. Year 2009.
 - Tuan V. Pham, Michael Starkschnitzer, Franz Pernkopf, Gernot Kubin. "Voice Activity Detection Algorithms Using Subband Power Distance Feature For Noisy Environments". Interspeech. No: ISSN: 1990-9772. Pages: 2586-2589. Year 2008.

- Tuan V. Pham, Gernot Kubin, Erhard Rank. "Robust Speech Recognition Using Adaptive Noise Threshold Estimation And Wavelet Shrinkage". IEEE-ICCE. No: ISBN 978-1-4244-2425-2. Pages: 206 - 211. Year 2008.
- Michael Stadtschnitzer, Tuan V. Pham. "Reliable Voice Activity Detection Algorithms Under Adverse Environments". IEEE-ICCE. No: ISBN 978-1-4244-2426-9. Pages: 218 - 223. Year 2008.
- Tuan V. Pham, M. Stark, Gernot Kubin. "Perceptual Wavelet Filtering For Robust Speech Recognition. Authors". ICASSP. No: ISSN: 1520-6149. Pages: 4385-4388. Year 2008.
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Attended Training

- Visiting Scholar at University of Washington, 2009; Portland State University, 2010, 2012
- HEEAP C-COM Leadership Workshop, Arizona State University, 2010, 2011, 2012
- National Assessor Training, HoChiMinh, 2015
- AUN-QA Training for Programmed Assessment (Tier 1), Bangkok, Thailand, 2015
- AUN-QA Training for Institutional Assessment (Tier 3), Bangkok, Thailand, 2017
- AUN-QA Assessor Training Workshop (Tier 2), Manila, Philippines, 2017
- CDIO Master Trainer, Singapore, 2016, 2017
- BUILD-IT Certified Facilitator Training for Master Teacher Training, Vietnam, 2017-2018
- AUN-QA Assessor Calibration Workshop, Vietnam, 2019