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NGUYEN THI ANH THU, PhD.

BIOGRAPHY

Dr. Nguyen Thi Anh Thu received her Ph.D in the United States in 2014 in Electrical and Biomedical Engineering and has 14 years of experience in smart health, digital transformation, signal processing, and image processing. She has been a higher education lecturer for over 16 years and has held the following leading positions:

- Vice-Director of The University of Danang - Da Nang International Institute of Technology (DNIIT) - a leading institute in IoT and AI technical solutions for smart cities.
- Vice-Dean and cum in charge of Vietnam - US Advanced Program in Electronics - Telecommunications as a Program Chair, since 2014 - present, of the Faculty of Advanced Science and Technology, The University of Danang - University of Science and Technology (DUT),
- Academic Manager of the Innovation and Entrepreneurship program, named the 21st Century Skills Development Program of DUT.

Also,

- In 2015, she joined the global Fablab network and served as a vice-president of Falblab Danang up to 2020.
- Meanwhile, since 2016, she has founded LYDINC Co., Ltd. and has led projects in STEAM education, innovation education, skills development, online education, and educational quality assurance.

In addition, she has participated in leading and initiating STEM innovation education activities, promoting women in STEM, and digital transformation, locally and internationally. She has been invited to be a Chair and Speaker at many national and international conferences and seminars on education, innovation, entrepreneurship, and digital transformation. Anh Thu has also initiated many extracurricular training programs and competitions for students in technology, education, entrepreneurship, etc., as well as international collaboration programs for her colleagues. She has

participated in the improvement, curriculum development, self-assessment, and outcome evaluation activities of undergraduate training programs according to AUN-QA and ABET standards since 2016. She is a reviewer of the international accreditation agencies: QAA, UK, and ASIIN, Germany.

JOB TITLE

- Founder and Vice-Director, L.Y.D.I.N.C Ltd. Co.
 - Vice Director, Danang International Institute of Technology, UD
 - Vice Dean, Faculty of Advanced Science and Technology, UD-DUT
 - Co-founder, DILab, L.Y.D.I.N.C Ltd. Co.
 - Senior Vice President, Fablab Maker Innovation Space Danang
 - Vice-Chair of IoTIA Teaching and Research Team, UD
 - ASIIN in-country peer reviewer; QAA international reviewer
 - Member, Vietnam Radio and Electronics Association
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RESEARCH INTERESTS

- BioPhotonics
 - Medical Imaging (Thermal Imaging; Optical Imaging - Laser Doppler Imaging, Spatial Frequency Domain Imaging, etc.)
 - 3D reconstruction; 3D Printing
 - Skin Wounds and Burns Assessment
 - Assessing the pathophysiology of skin tissue using optical imaging
 - Smart Healthcare
 - Digital Transformation (Smart Campus, Smart University, Smart City)
 - STEAM Innovation Education
 - Research and Innovation in Higher Education
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EDUCATION

- **2006:** Bachelor's in Electronic and Telecommunication Engineering, The University of Danang - University of Science and Technology, Vietnam.
- **2014:** Doctor of Philosophy, in Electrical - Biomedical Engineering, The Catholic University of America, United States.

Typical training /workshop with certificates:

- **QAA - Training for International expert in Higher Education Quality Assurance**, by QAA, 2023.
 - [ASIIN - Training for International expert in Higher Education Quality Assurance](#), by ASIIN Consult, 2021.
 - [Digital Transformation](#): **from AI to IoT, Cloud, Blockchain and Cyber Security**, 2-month program, MIT Professional Education, 2021.
 - [Global Entrepreneurship](#), 1-month program, Dutch Center for Entrepreneurship, with the support of the Embassy of the Kingdom of the Netherlands.
 - [Innovation of Products and Services](#): **MIT's approach to Design Thinking**, 2-month program, MIT Management Executive Education, 2020.
 - **Communication Skills**, USAID BUILDIT project, 2019.
 - **Digital marketing**, Center for Promotion of Human Resources Development, Danang.
 - **AUN-QA Tier 1**, by AUN-QA Network, Bangkok, Thailand, 2016.
 - **University Leading Policy**, 1-year program, by SEAMEO RETRAC and ASU, under BUILDIT project, 2016-2017.
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JOB EXPERIENCES

- **2007 - 2018**
Lecturer, Electronic and Telecommunication Engineering, UD-DUT
- **2009 - 2014**
Ph.D. fellow, The Catholic University of America, Washington, DC, USA
Joint-researcher, Washington Hospital Center, USA
Member, American Burn Association, USA
- **2014 - 2018**
Program Chair, Advanced Program in Electronic and Communication Engineering, Center of Excellence, UD-DUT
- **2015 - now**
Founder, L.Y.D.I.N.C. Ltd. Co. (with LYD3D branch for 3DPrinter, Digital Transformation & LYDEdu branch for Innovation Education and Quality Assurance)
- **2016 - 2020**

Senior Vice President, Fablab Maker Innovation Space Danang (Curriculum and Partnership Manager)

- **2017 - now**

Vice Director, Danang International Institute of Technology, UD

Vice-Chair of IoTIA Teaching and Research Team, UD

- **2018 - now**

Vice Dean, Faculty of Advanced Science and Technology, UD-DUT.

- **2020 - now**

Co-founder, DILab - Digital Innovation Laboratory, UD-DUT

PROFESSIONAL EXPERIENCES & ACTIVITIES

Lead/Manager at STEAM Innovation and Digital Transformation programs/events:

- **Program Coordinator**, DUT EPICS program, nationally held by Arizona State University and DOW Vietnam, 2024-2025.
- **Academic Project Manager**, STEM Career Academy Project, UD-DUT, funded by SEAMEO STEMED and Chevron Thailand, ASEAN, from 2023 - 2024.
- **Program Coordinator**, Training Program and Contest "Innovation and Entrepreneurship 4.0 for Community", The University of Danang - University of Science and Technology, from 2024.
- **Program Coordinator**, Going Global partnership project, "Inclusive Leadership and Governance Exchange: Developing a Network of Best Practice between Wales and Vietnam" between Cardiff University (Wales) and the University of Danang - University of Science and Technology (Vietnam), funded by British Council, 2022-2024.
- **Academic Leader**, "21st Century Skill for Sustainable Development" program, DUT, from 2020.
- **General Organizing Committee**, Training courses for LoRa Network and Artificial Intelligence with >100 participants, hosted by DNIIT Institute-UD & DILab (SmU2SmC Lab)-DUT-UD, 2020.
- **General Manager**, Annual Smart Campus Campaign, by The University of Danang and University of Cote d'Azur (France), 2017, 2018, 2019, 2020, and International Smart Campus Asia Pacific Competition, 2023.

- **Academic Lead**, GoFab STEAM Program - After School / School Excursion (K-12), Fablab-MIS Danang, from 2018-now.
- **Academic Lead**, STEAM curriculum development for International School EMASI & Renaissance, Ho Chi Minh, Vietnam.
- **Project Mentor**, Maker to Entrepreneur (MEP), nationally held by BUILD-IT Project, Arizona State University, 2019, 2020.
- **Program Coordinator**, DUT eProject program, nationally held by BUILD-IT Project, Arizona State University, 2020.
- **Administrator**, Vietnam Women in STEM FB page, since 2017.
- **Project Leader & Founder**, The 2017 Women Engineering Projects in Community Service (WEPICS 2017), co-organized with Arizona State University (USA), 2017.
- **Curriculum Manager**, 3D-printing training session at Sunflower Mission Workcamp, Quangnam, Vietnam, 2017.
- **Curriculum Manager**, Innovation Maker Week Danang, 2016.

Lead/Manager at Quality Assurance and Accreditation:

- **ABET Curriculum Development Chair**, Advanced undergraduate program in Electronic and Communication Engineering, DUT, 2016 and 2021.
- **AUN-QA Self-Assessment Report Chair**, Advanced undergraduate program in Electronic and Communication Engineering, DUT, 2016 (AUN-QA V2.0), 2022 (AUN-QA V4.0).

Invited speakers/ Moderators/ Chairs at the following International and National events:

- **Invited Speaker**, "AI Applications in Blended Learning for UK-TNE Training Programs", UK-TNE (Transnational Education) training programs, British Council, 2024.
- **Special Session and Technical Co-Chair**, ICISN International Conference, 2021.
- **Program Committee and Technical Co-Chair**, the 24th National Conference on Electronics, Communications and Information Technology (REV-ECIT 2021).
- **Invited Speaker**, SEAMEO RETRAC, 2021.
- **International judge**, YSEALI Summit: Power of STEAM Education and Workforce Innovation, ASEAN countries and Timor Leste, 2021.
- **Invited Judge, Examination of Science and Technology**, Le Quy Don High School (2021).
- **Invited Talk, Digital Transformation in Education workshop**, Le Quy Don High School (2021).
- **Program Committee and Technical Chair**, the 24th National Conference on Electronics, Communications and Information Technology (REV-ECIT 2021).

- **Co-invited Speaker**, "Potential Framework of AI application in Medical Diagnosis Research," Virtually International Conference on Health Informatics, Medical, Biological Engineering, and Pharmaceutical (HIMBEP), Sep. 2020, Jakarta, Indonesia.
- **Program Committee and Technical Chair**, the 23rd National Conference on Electronics, Communications and Information Technology (REV-ECIT 2020).
- **Program Committee**, International Conference on Advanced Technologies for Communications (ATC 2020).
- **Invited Speaker**, "From Smart University to Smart City: Framework and Applications," Smart City Summit 2019, Oct. 2019, Danang, Vietnam.
- **Moderator**, Distinguished Panel: "Broadening Participation in STEM: Closing the Gender Gap", STEMCON 2019 - The Future Digital Workforce: Implications and Opportunities in STEM, Mar. 2019, Danang, Vietnam.
- **Program Committee and Technical Chair**, the 22nd National Conference on Electronics, Communications and Information Technology (REV-ECIT 2019).
- **Program Committee and Session Chair**, Special Session "Smart City-Experiences and Innovations-SCEI", Danang, International Conference on Computing and Communication Technologies (RIVF 2019).
- **Invited Speaker**, Sunflower Mission Panel, 2018.
- **Program Committee**, Special Session "Internet of Things", International Conference on Advanced Technologies for Communications, Quy Nhon, Vietnam, (ATC 2018).
- **Program Committee**, International Summer School on SuperComputing, Danang, (SCCAMP 2018).
- **Program Chair and Session Chair**, RUNSUD International conference, Danang (RUNSUD 2016).
- **Invited Speaker**, Distinguished Panel: "Promoting Women in STEM", STEMCON, March 2016, Hanoi, Vietnam.

Other professional experiences

- **Visiting Scholar**, Université Côte d'Azur, Nice, France, 2019
- **Visiting Scholar**, Arizona State University, USA, 2016
- **Invited STEM entrepreneur**, Cambodia Science Engineering Festival, Cambodia, hosted by the US Embassy, 2016.
- **Invited STEM entrepreneur**, GES (Global Entrepreneurship Summit), at Silicon Valley, USA, 2016

- One of the 3 selected startups to be directly met **The President Barack Obama** during his visit to Vietnam in 2016.
 - **Supervisor**, YMAC Challenges, UD-DUT in partnership with Singapore Polytechnics, Singapore, 2014.
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TEACHING EXPERIENCES

- 2009 - now: Lecturer at UD-DUT, teaching in English
 - Electronic Devices and Circuits 2
 - Biomedical Imaging
 - Digital Signal Processing
 - Selected Topics in 4.0 (4.0 technologies)
 - Introduction to Engineering
 - Research, Innovation and Entrepreneurship Practices - PBL5
 - Professional Issues and Practices
 - Introduction to Technical Communication
 - Advanced Technical Writing and Oral Presentation
 - Teamwork and Leadership
 - Specialized English
- 2019, 2020: Training "STEAM curriculum development and learning teaching assessment activities" at Train-the-Trainer workshops at International School EMASI & Renaissance, Ho Chi Minh, Vietnam.
- 2019: Training "eProject" for BUILDIT MEP Project at UD-DUT.
- 2019, 2020, 2021, 2022, 2023: Training "Maker-to-Entrepreneur program" for BUILDIT MEP Project at UD-DUT.
- 2023, 2024, 2025: Training "Engineering Projects in Community Services" EPICS and Global EPICS for BUILD-IT Project at UD-DUT.
- 2023: Training the Trainers in Maker to Entrepreneurship in the Program of Innovation and Entrepreneurship Program, BUILD-IT project, USAID.
- 2023: Training the Trainers in Digital Pedagogy, BUILD-IT project, USAID.
- 2023-2024: Training the Trainers in STEM PBL education, STEM Career Academy Project (2-year), funded by SEAMEO STEMED-Chevron.
- 2024-2025: Training "Engineering Projects in Community Services" EPICS course held by ASU-DOW VN at UD-DUT.

TEACHING ACHIEVEMENTS

Supervisor:

- **Best Presenter** of the paper at AIMS - International Conference, 2025
 - **1st prize** - student project at EPICS competition, nationally, 2024-2025
 - **2nd prize**, student team at BKTechshow, UD-DUT, 2024-2025
 - **2nd prize**, student team at FAST Techshow, FAST Faculty, UD-DUT, 2024-2025
 - **3rd prize**, student team at FAST Techshow, FAST Faculty, UD-DUT, 2024-2025
 - **2nd prize** - student project at BUILD-IT EPICS competition, nationally, 2023-2024
 - **1st prize** - student project at Global EPICS competition, internationally, 2023-2024
 - **2nd prize** - student team at Smart Campus Campaign, UD, 2023-2024
 - **2nd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2023-2024.
 - **3rd prize** - student project at Maker-to-Entrepreneur program, BUILD-IT, nationally, 2023.
 - **2nd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2022-2023.
 - **3rd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2022-2023.
 - **2nd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2021-2022.
 - **3rd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2021-2022.
 - **1st prize** - student project at Entrepreneurship in Technology, The University of Danang, 2021.
 - **3rd Prize** -Student Scientific Research, Ministry of Training and Education, 2020-2021.
 - **2nd Technology prize** - student team at BKTechshow, UD-DUT, 2020-2021.
 - **2nd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2020-2021.
 - **3rd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2020-2021.
 - **1st prize** - student project at Maker-to-Entrepreneur program, BUILD-IT, nationally, 2020.
 - **2nd prize** - student team at Maker-to-Entrepreneur program, BUILD-IT, nationally, 2019.
 - **Best presentation prize** - student team at eProject program, BUILD-IT, nationally, 2020.
 - **1st prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2019.
 - **1st Technology prize** - student team at BKTechshow, UD-DUT, 2019.
 - **3rd Technology prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2019.
 - **3rd Idea prize** - student team at BKTechshow, UD-DUT, 2018.
 - **3rd prize** - student team at FAST Techshow, FAST Faculty, UD-DUT, 2018.
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MASTER STUDENTS

- **Nguyễn Phú Cường**, Master Thesis, "PACS system design for data storing and transferring at Danang Cancer Hospital" / "Thiết kế hệ thống PACS phục vụ việc lưu trữ và truyền tải hình ảnh y khoa tại bệnh viện ung thư Đà Nẵng", UD, 2016.
 - **Lại Phước Sơn**, Master Thesis, "Researching and Developing an wrist-device model for heart beat and SpO2 measurement" / "Nghiên cứu phát triển mô hình thiết bị đeo tay đo nhịp tim và nồng độ oxy trong máu", UD, 2015.
 - **Nguyễn Ngọc Thạch**, Master Thesis, "Điều khiển camera bám đuổi mục tiêu di động", UD, 2014.
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SCHOLARSHIPS/ AWARDS

- Active Member Award, Vietnam Association of Radio and Electronics, 2023.
 - Active Member Award, Vietnam Association of Radio and Electronics, 2023.
 - Active Member Award, Vietnam Association of Radio and Electronics, 2021.
 - "Burke/Yannas bioengineering best paper" Award, American Burn Association, by American Burn Association, USA, 2012.
 - Doctoral fellowship, Vietnamese Ministry of Education and Training, interviewed by the U.S. National Academy.
 - Provost scholarship, The Catholic University of America, 2009-2011.
 - Doctoral research assistantship, The Catholic University of America, 2009-2013.
 - Active Membership - American Burn Association, USA. No: 20743. Year: 2012.
 - International Scholarship (3 months) for Development and Culture Study Course by Oslo University, Norway, 2007.
 - ODON VALLET Scholarship. Year: 2003.
 - INTEL Scholarship. Year: 2002.
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RESEARCH PROJECTS

Digitalization for Medical Devices, City Project, by Danang City Department of Information and Communication & Danang International Institute of Technology, 2020.

LoRa for Danang Smart City, City Project, by Danang City Department of Information and

Communication - Danang International Institute of Technology - University of Côte d'Azur, since 2018.

Employee Attendance Management System Based on Face Recognition Techniques (Nghiên cứu xây dựng hệ thống quản lý cán bộ viên chức vào ra tại khu vực làm việc dựa trên kỹ thuật học máy nhận dạng khuôn mặt người). Project Manager: Thu T.A. Nguyen. University Project, Year: 2019-2020. Project Code: T2019-02-41. Completed.

Design Framework of Smart University (Nghiên cứu và xây dựng các nền tảng cơ bản để phát triển Trường Đại học Bách khoa – Đại học Đà Nẵng theo định hướng phát triển đại học thông minh). Project Manager: Tuan V. Pham, Project Member: Thu T.A. Nguyen. University Project, Year: 2019-2020. Project Code: T2019-02-40. Completed.

Skin Simulation for Smart Diagnosis using Spectral Imaging, The University of Danang Project, Year: 2023 - 2026. On-going.

PUBLICATIONS

International

1. AIMS 2025, Sang-Tùng, Hà-Đạt
2. ISSCEI 2024, Sang - Tùng, 2024
3. CERIA 2024, Trong Nghia, 2024
4. IEEE conf, rICH faBIEN, 2024
5. Duy Khanh Ninh, Kha Duy Phan, Thu Thi Anh Nguyen, Minh Nhat Dang, Nhan Le Thanh and Fabien Ferrero. Classification of Urea Content in Fish Using Absorbance Near-Infrared Spectroscopy and Machine Learning Appl. Sci. 2024, 14(19), 8586; <https://doi.org/10.3390/app14198586>. Submission received: 29 July 2024 / Revised: 19 September 2024 / Accepted: 20 September 2024 / Published: 24 September 2024 (This article belongs to the Special Issue Application of Neural Networks in Sensors and Microwave Antennas) (Q1)
6. Anh Thu T. Nguyen, Nguyet Ha T. Tran, Dat Xuan Ho, Hoang Duc V. Le, Liem Thanh Nguyen, Hoang Hong Ngo, Ba Hoang Nguyen, Tuan V. Pham. "Smart system for fish freshness determination". International Symposium on Smart Cities: Experiences and Innovation - ISSCEI 2022, Publisher Services, ISBN: 979-8-3507-0402-0, 2023. <https://www.isscei.org/publication>
7. Anh Thu T. Nguyen, Duc D. D. Luu, Khanh D. Phan, Phuong T. Kieu, Nhan T. Nguyen, Thien T. Nguyen, Minh T. Nguyen, Tuan V. Pham. "Smart skin diagnosis". International Symposium on

Smart Cities: Experiences and Innovation - ISSCEI 2022, Publisher Services, ISBN: 979-8-3507-0402-0, 2023. <https://www.isscei.org/publication>

8. Tuan Van Pham, Anh Thu T. Nguyen. "Smart Education and Governance through Smart University Framework". International Symposium on Smart Cities: Experiences and Innovation - ISSCEI 2022, Publisher Services, ISBN: 979-8-3507-0402-0, 2023. <https://www.isscei.org/publication>
9. Duc D. D. Luu, Khanh D. Phan, Phuong T. Kieu, Nhan T. Nguyen, Thien T. Nguyen, Minh T. Nguyen, Tuan V. Pham and Anh Thu T. Nguyen, A Study on Skin Modeling Based on Monte Carlo Simulation for Skin Health Diagnosis, Engineering Innovation for Sustainable Future (ISAT-21), ISSN 2434-4273 on 24-25 November, 2022.
10. Nguyet Ha T. Tran, Dat Xuan Ho, Hoang Duc V. Le, Liem Thanh Nguyen, Hoang Hong Ngo, Ba Hoang Nguyen, Tuan V. Pham and Anh Thu T. Nguyen, A Novel Automatic Capturing Tool For Data Collection in Fish Freshness Determination, Engineering Innovation for Sustainable Future (ISAT-21), ISSN 2434-4273 on 24-25 November, 2022.
11. Anh Thu Nguyen T., Dat Ho Xuan, Uyen Hoang Kim, Ba Hoang Nguyen, Thuong H.N. Nguyen, Tuan Pham V., Nguyet Ha Tran T. and Phuong Dieu Nguyen T., "The Remarkable Enhancement in Fish Freshness Classification on Various Species using Neural Network on Physiological Characteristics Features", Proceeding of International Conference on Intelligent Systems & Networks, ICISN2022, 5 July 2022. https://doi.org/10.1007/978-981-19-3394-3_71.
12. Manh Thao Nguyen, Lic Tran Van, Thanh Ngo Dinh, Thu Nguyen Thi Anh, Huy Le Quoc, Le Trinh, Fabien Ferrero and Nhan Le Than, "Enabling the Smart City through agile LP-WAN network in Da Nang City", Proceeding of International Conference on Intelligent Systems & Networks, ICISN2022, 5 July 2022. pp 623–629. https://doi.org/10.1007/978-981-19-3394-3_72
13. Thuong H.N. Nguyen, Thi Mai Hue Truong, Minh Duc Le, Ngoc Huynh Tran, Thi Hai Hau Pham, Hoang B. Nguyen, Ali Basiri, Tuan V. Pham and Anh Thu T. Nguyen, "An Abnormal Heart Rhythm Warning System based on a Low-cost Two-electrode ECG Signal using Threshold and Neural Network Approaches", Proceeding of International Conference on Intelligent Systems & Networks, ICISN2022, 5 July 2022.. https://doi.org/10.1007/978-981-19-3394-3_69
14. Book chapter: NTA Thu, PV Tuan, HVK Ngoc, NTT Trinh, DT Vy, NTK Thoa, "Faculty-Level Enhancement of English Medium Instruction at a Vietnamese University: Combining Non Curricular, Curricular and Extra-Curricular Approaches", Education in the Asia-Pacific Region: Issues, Concerns and Prospects 68, pp 41-60, Springer, 12 June 2022. https://doi.org/10.1007/978-981-19-2169-8_3
15. Fabien Ferrero, Le Quoc Huy, Ngo Dinh Thanh, Le Huy Trinh, Thi Anh Thu Nguyen, van Lic Tran, Nhan Le Thanh, "Large Scale LoRaWan LPWAN Deployment in DaNang City, Vietnam". Proceedings of 2021 IEEE Conference on Antenna Measurements & Applications (CAMA).

2021.

16. 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) (Springer).
17. Nguyen, A.T.T., Le, M., Vo, H.N., Hong, D.N.T., Phuoc, T.T.A., Pham, T.V. (2021). Proposed Novel Fish Freshness Classification Using Effective Low-Cost Threshold-Based and Neural Network Models on Extracted Image Features. In: Huang, YP., Wang, WJ., Quoc, H.A., Giang, L.H., Hung, NL. (eds) Computational Intelligence Methods for Green Technology and Sustainable Development. GTSD 2020. Advances in Intelligent Systems and Computing, vol 1284. Springer, Cham. https://doi.org/10.1007/978-3-030-62324-1_6
18. 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) (IEEE Xplore).
19. Dao Q. Le, Nie wang Lie, Nguyen Q.N. Quynh, Nguyen T.A. Thu, "Heart Rate Estimation based on Facial Image Sequence", 5th International Conference on Green Technology and Sustainable Development (GTSD 2020) (IEEE Xplore).
20. 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) (IEEE Xplore).
21. 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) (IEEE Xplore).
22. 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) (IEEE Xplore). DOI: 10.1109/GTSD50082.2020.9303156
23. Thu T.A. Nguyen, Nguyễn Ngọc Trâm Kha, Nguyễn Bá Hội, Tuan V. Pham, "A study on CDIO-based STEAM program design and implementation". Proceedings of the 16th International CDIO Conference, hosted on-line by Chalmers University of Tech, 2020.
24. Tuan V. Pham, Nguyễn Hồng Hải, Phan Minh Đức, Tan Kay Chuan, Thu T.A.Nguyen, "Alignment and Mapping between CDIO standards and AUN-QA criteria." Proceedings of the 16th International CDIO Conference, hosted on-line by Chalmers University of Tech, 2020.
25. Lai Phuoc Son, Nguyen Thi Anh Thu, Nguyen Trung Kien, "Design an IoT wrist-device for SpO2 measurement", IEEE Xplore, Advanced Technologies for Communications (ATC) 2017

International Conference, ISSN: 2162-1039, DOI: 10.1109/ATC.2017.8167605, 2017.

26. Thu T. A. Nguyen, Jeffrey W. Shupp; Lauren T. Moffatt; Jessica C. Ramella-Roman. "Construction of a digital and physical mouse model aimed at the study of electrical shock". Proc. SPIE 8945, Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurement of Tissue VI. No: 8945. Pages: 894508-19. Year 2014.
27. Thuan Ho, Thu T. A. Nguyen, Alison Lichy, Suzanne Groah, Jessica C. Ramella-Roman. "The efficacy of pressure relief maneuvers in spinal cord injury patients, a clinical study". Proc. SPIE 8938, Optical Fibers and Sensors for Medical Diagnostics and Treatment Applications XIV, doi:10.1117/12.2039545, USA.. No: SPIE 8938. Pages: 89380U. Year 2014.
28. Jessica C. Ramella-Roman; Thuan Ho; Du Le; Pejman Ghassemi; Thu T.A. Nguyen; Alison Lichy; Suzanne Groah. "Monitoring the impact of pressure on the assessment of skin perfusion and oxygenation using a novel pressure device". Proc. SPIE 8576, Optical Fibers and Sensors for Medical Diagnostics and Treatment Applications XIII. No: 8576. Pages: 85760N. Year 2013.
29. Jessica C. Ramella-Roman; Du V. N. Le; Pejman Ghassemi; Thu T.A. Nguyen; Alison Lichy; Suzanne Groah. "Skin microvascular and metabolic response to pressure relief maneuvers in people with spinal cord injury". Proc. SPIE 8579, Optical Interactions with Tissue and Cells XXIV. No: 8579. Pages: 85790R. Year 2013.
30. Thu T.A. Nguyen, Jessica C. Ramella-Roman, Lauren T. Moffatt, Rachel K. Truhan-Ortiz, Marion H. Jordan, and Jeffrey W. Shupp. "The Novel Application of a Spatial Frequency Domain Imaging System to Determine Signature Spectral Differences Between Infected and Non-Infected Burn Wounds". Journal of Burn Care and Research. No: 34. Pages: 44-50. Year 2013.
31. Thu T. A. Nguyen, Hanh N. D. Le, Minh Vo, Zhaoyang Wang, Long Luu, and Jessica C. Ramella-Roman. "Three-dimensional phantoms for curvature correction in spatial frequency domain imaging". Biomedical Optics Express. No: Vol. 3, Issue 6. Pages: pp. 1200-1214. Year 2012.
32. Thu T.A. Nguyen, J.W. Shupp, L.T. Moffatt, M.H. Jordan, J.C. Jeng, and J.C. Ramella-Roman. "Modeling of skin cooling, blood flow, and optical properties in wounds created by electrical shock". Proc. SPIE. No: 8207. Pages: 8207A-05. Year 2012.
33. Thu T. A. Nguyen, Jeffrey W. Shupp, Lauren T. Moffatt, Marion H. Jordan, James C. Jeng, Ellen J. Leto, and Jessica C. Ramella-Roman. "Assessment of the pathophysiology of injured tissue with an in vivo electrical injury model". IEEE Journal of Selected Topics in Quantum Electronics. No: Vol. 18, Issue 4. Pages: 1403-1411. Year 2012.
34. Thu T.A. Nguyen, Jessica C. Ramella-Roman, Lauren T. Moffatt, Rachel K. Truhan-Ortiz, Marion H. Jordan, and Jeffrey W. Shupp. "The Novel Application of a Spatial Frequency Domain

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