



INITIATIVE D'EXCELLENCE

UCA J.E.D.I.
UNIVERSITÉ CÔTE D'AZUR



The University of Danang

AUF Agence
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DNIIT DANANG INTERNATIONAL INSTITUTE OF TECHNOLOGY

INITIATIVE OF THE EXCELLENCE - INVESTMENT FOR THE FUTURE



ACTIVITY REPORT

Mid-term May 2017-April 2019



A word from the DNIIT Director

The Da Nang International Institute of Technology (DNIIT) was established two years ago as an autonomous entity within the University of Danang with the support of the Université Côte d'Azur Initiative of Excellence (IDEX) and the Francophone University Agency (AUF). It has benefited from the support of the relevant Vietnamese and French ministries.

The philosophy behind DNIIT is driven by the international dimension of the IDEX; to promote transdisciplinarity, innovation, and scientific responses to societal and territorial challenges. The institute is, above all, an international collaborative platform that drives project-teams. The latter carry out applied research, which extends to innovation and training activities. It is therefore a question of proposing a new type of international collaboration, which decompartmentalizes the academic activities with a view to building true thematic ecosystems focused on solving societal problems. These themes are jointly identified by the regional participants and stakeholders from the Côte d'Azur and Da Nang. They correspond to societal themes that have been identified by the IDEX: digital challenges such as artificial intelligence and the internet of things, smart territories and sustainable development, health, well-being and aging.



The outcomes of DNIIT's activities for these first two years of existence seem very promising. These include:

- The creation of 6 UCA-UD mixed-project teams for applied research, which are carrying out around a dozen projects co-financed by various institutions.
- The organization of two special sessions at two international IEEE conferences, an international summer school, three symposia or weeks of scientific seminars in Danang.
- The implementation of two annual competitive funding campaigns for students and faculty of the UD for innovative projects targeting the theme of the "Smart-Campus". This action is intended to be extended to the entire city of Danang.
- The delocalization of a UCA master's program and four short courses on new technologies for academics and professionals.
- The organization of more than 103 weeks of faculty visits between the two universities through the alignment of various sources of funding.
- The organization of more than 300 months of student visits between the two universities, at all levels and in all disciplines, again using various sources of funding.

Scientific productivity related to DNIIT themes involving researchers from both universities is notable:

Six doctoral theses defended at UCA by UD personnel, nine articles in specialized scientific journals, twenty-seven articles presented at Asian conferences with selection committees, twenty-six internship reports (Master and DUT) and a research report.

These encouraging results allow us to consider new goals for the next two years, including:

Obtaining a CNRS Associated International Laboratory label between the CNRS UMR I3S and UCA LEAT on one the hand and DNIIT and the Computer Science Center of the Academy of Science and Technology of Vietnam on the other hand.

The setting up of a recruitment office for UCA Graduate Schools of Research.

Broadening the scope of collaboration to include new disciplines.

Improved self-financing by developing innovative services for students and companies and professional training contracts.

In all, DNIIT is a young institute that can grow rapidly in this fast-growing region of the world, as it seeks to share knowledge and values. UCA, its IDEX and the AUF are investing in the right place--that is my deep conviction.

Pr. Nhan Le Thanh

ACTIVITY REPORT

Mid-term May 2017-April 2019

INTRODUCTION



Created in May 2017 by the University of Danang (UD), in partnership and at the request of Université Côte d'Azur (UCA), the Danang International Institute of Technology (DNIIT) is an entity charged with the development of university collaborations in research, training and innovation between the two universities. Its creation is supported by the Ministry of Education of Vietnam, the French Ministry of Higher Education, Research and Innovation, the UCA IDEX and the Francophone University Agency (AUF). A tripartite cooperation agreement was signed in March 2017 between the three partners, UD, UCA and AUF. DNIIT proposes the development of collaborative research and innovation projects in different fields of application. The institute implements innovation and technology transfer activities within the university component of the DU. In line with UCA's IDEX logic, DNIIT plays a central role in building a new ecosystem "University - Enterprise - Society" at the University of Danang in connection with that of the Côte d'Azur.

The DNIIT is organized into four units:



- A Center of Invention and Research (MIRE), which currently includes 6 project-teams: Emotica, Susha, Posca, Mavak, Slego, Ecare and Pal. The center also manages the annual Smart-Campus innovative projects campaign on the campuses of the University of Danang;



- A NiceCAMPUS university education center, which manages a recruitment office for UCA Graduate Schools of Research (master, PhD, laboratory). It is currently working on the delocalization of UCA's e-tourism master's program. It also organizes certified short courses including international thematic (summer and winter) schools;



- A Francophone Business Center (CNFp; Campus Numérique Francophone Partenaire), which conducts university incentive actions organized by AUF;
- A Startup Incubator Center (SIC), which will be operational from 2020.

The institute is run by a team of five people. The Director is proposed by UCA, and it is currently Professor Nhan Le Thanh.

The main missions of DNIIT are to:



- Develop collaborative research and innovation projects between research professors from UD's constituent universities supported by those of UCA and its international networks. Research activities are organized in the form of project-teams. Each focus on trans-disciplinary applied research, which aims to produce applications that meet national and regional economic or societal needs;
- Organize and implement pedagogical actions related to research in UD and UCA component universities. Create interaction platforms between researchers, instructors, students and industry to meet the need for interactions and to build transdisciplinarity. Contribute to the creation of a new University-Enterprise-Society ecosystem.
- Organize exchanges and visits by students and faculty between UD and UCA within their laboratories and training programs.
- Establish and manage international master's and PhD programs in collaboration with UCA and other international institutions to support UD's research and training activities.
- Support innovative student and faculty projects and act as a liaison with industry partners for technology transfer.
- Develop collaborations and exchanges in the Francophone university community and contribute to the educational resources portal.

"Initiative for the digital development of the Francophone university space" (IDNEUF).

RESEARCH ACTIVITIES

CURRENT ACTIVITIES OF THE DNIIT PROJECT-TEAMS

We present below the activities of the five project-teams: EMOTICA, SUSHA, POSCA, MAVAK and SLEGO. Two other project-teams, PAL and ECARE, are under construction.

Project-team EMOTICA (Emotion capture)



Creation date: May 2017

Co-leaders: Dr Nguyen Thi Khanh Hong (UTE), Assoc. Prof. Belleudy Cecile (UCA)

Members: 8 of which 5 are UD faculty (UTE), 2 UCA faculty (1 I3S and 1 LEAT), 1 Dr (Elec-Info)

Objective:

Studies of different capture devices and multimodal physiological signal analysis techniques as well as supervised machine learning [18.03] with the aim of creating a platform for automatic recognition of human emotions. Implementation of innovative applied projects using this platform [16-04] [16-06].

Activities and results:

- MUSEMOTICA project

Implementation of two prototypes for the quantification of emotions stimulated by music. One on Android Mobile and the second in Java (laptop)

-EMOTICARD project:

Design of a non-invasive hardware architecture and enrichment of the library of an architecture exploration framework in the C-TLM System.

Applications:

The EMOTIC platform is currently used on an experimental basis, in the team of Dr. Brutart at the Arnault Tzanck of Mougins clinic in collaboration with the CoBTeK team of Prof. Philippe Robert and Inria Sophia-Antipolis, to test the emotional behavior on 3 groups of people: healthy young people, healthy older people, people with Alzheimer's disease.

Project-Team SUSHA (Seamless Ubiquitous Services for Healthcare Applications)



Creation date: April 2017

Co-leaders: Assoc. Prof. Dr. Huynh Cong Phap (CIT-MTS), Assoc. Prof. Tigli Jean-Yves (UCA)

Members: 10, of which 3 are UCA faculty + 1 UCA doctoral candidate (I3S), 6 UD faculty (CIT-SICT)

Objective:

implementation of applied research

projects developed from a CPS (Cyber Physical System) platform for dynamic composition of software services performed via a set of connected objects. The work of SUSHA is dedicated to the field of e-health (home care for people with loss of autonomy by virtue of connected objects) and e-training (telepresence robots and connected objects assisting with teletraining) called SUSHA-ART.

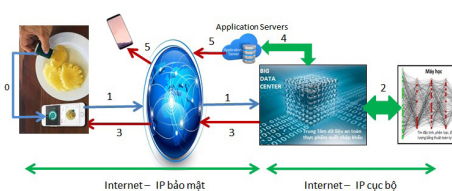
Activities and results:

- SUSHA-ART project:

The Augmented Remote Training (ART) project is a pedagogical innovation project aimed at improving the technical solutions offered for distance learning. This project has been supported since 2017 by the Education and University Life Committee of the University of Nice Sophia Antipolis as part of a program of "innovative pedagogy" (led by Assoc. Prof. Stéphane Lavirotte, in collaboration with Assoc. Prof. Jean-Yves Tigli). The SUSHA-ART project is based on this work and the generic connected object service composition platform [15-01]. SUSHA-ART is an integrating extension for the remote usage of equipment thanks to the research work conducted by the Vietnamese doctoral student Do The Can on the "Composition of services for connected objects sensitive to context according to different points of view", advised by Assoc. Prof. Gaëtan Rey and Prof. Nhan Le Thanh, in collaboration with Assoc. Prof. Jean-Yves Tigli) [17-02]. SUSHA-ART will be an adaptation of the ART platform to improve remote exchanges within the framework of MIRE (Center of Invention and Research) and NiceCAMPUS postgraduate courses and will thus serve as a specialized experimental framework for the ART project.

SUSHA-ART will also be an adaptation

of the ART platform as a remote assistance platform for health services



integrating the perception of the remote environmental context through ambient sensors (VOC pollution, temperature, hygrometry, etc.).

Equipe-Projets POSCA (Pollution Scan)

Creation date: August 2017

Co-leaders: Dr. Assoc. Prof. Dang Minh Nhat (DUT), Prof. Nhan Le Thanh (UCA)
Members: 8 of which 2 are UCA faculty (1 I3S and 1 LEAT), 6 UD faculty (DUT)

Objective:

Studies of spectral methods and techniques observed by NIR micro-spectrometers. Machine Learning's mechanisms, including those of Deep Learning, are investigated with the aim of creating a platform for automatic recognition of chemical pollution in food, water or air.

Activities and results:

- FADOTO project:

A system for recognizing food characteristics from spectral images provided by a micro-spectrometer. Experiments were conducted in parallel in Danang and Nice on different samples: fish, meat, vegetables and fruits with good results [18-10].

The Fadoto results allow the creation of the national project of Public Food Safety (PFS), which is being validated by the Vietnamese Ministry of Science and Technology.

MAVAK Project-Team (MAng VAt-the Ket-noi; networks of connected objects)



Creation date: August 2017

Co-leaders: Dr. Le Van Huy (DUT), Prof. Ferrero Fabien (UCA)

Members: 7 of which 2 are UCA faculty (1 I3S and 1 LEAT), 2 UD faculty (DUT)

Objective:

Studies of long range and low energy network protocol techniques (LP-WAN) [17-03] [17-05] [17-06] and design of data collection platforms from IoT connected objects [17-07] [17-08].

Activities and results:

- "Smart Campus" project

Testing of LP-WAN networks as part of smart-campus campaigns taking place at the UD. The MAVAK team, is co-responsible for organizing Smart-Campus campaigns with the various UD campuses.

Application:

Installation of 7 LoRaWAN network antennas on the four UD campuses and in Danang city and training in LP-WAN basic techniques for UD faculty and students

Project-Team SLEGO (Specific Domain Language for Experience Global Orchestration)

Creation date: August 2017

Co-leaders: Dr. Hoang Thi Thanh Ha (UED-Danang University of Economics), Assoc. Prof. Peraldi-Frati Marie-Agnès (UCA)

Members: 8 of which 2 are UCA faculty (I3S), 5 UD faculty (2 UED, 1 DUT, 2 DUE faculty), 1 IUT faculty Viet-Han

Objective:

Study and formalization of the software design languages "Specific domain" [T2] [16-01] [16-02] [16-03] for the deployment of IoT services. Development of software engineering tools for the development and deployment of services. Deployment on heterogeneous mixed infrastructures. Verification of functional and non-functional behaviors (performance, safety) [T1] [17-01].

Activities and results:

Creation of secure hardware architecture for the deployment of IoT services and applied to the context of people with loss of autonomy [18.04]. Deployment of an Eclipse Gemoc-based DNITT model for the software component, and hardware infrastructure with multimodal sensors, RPI-based gateway and data outsourcing on server infrastructure.

SCIENTIFIC EVENTS

3rd RUNSUD Symposium 2016

Date: April 22-23, 2016

Location: Danang

Themes:

RUNSUD (UNS-UD Scientific Meeting) is a cycle of biennial conferences. RUNSUD 2016 focused on the themes of e-Health.

Result:

9 articles and 11 posters by UD and UCA (ex-UNS) faculty

The articles were selected for a special issue of the UD science and technology journal.



University of Technology)

Thématiques :

LoraWANT, IoT and monitoring applications on campus..

Result:

- Semi-final 11 of 39 projects are selected for the final
- Final: 9 projects presented including 6 awards:
 - + 3 prizes for faculty: 1st - 30 million VND; 2nd - 20 million VND; 3rd - 15 million VND
 - + 3 prizes for students: 1st - 15 million VND; 2nd - 10 million VND 3rd - 5 million VND

Special Session "IoT Devices, Systems and Applications" in the 20th International IEEE ATC Conference 2017 (<http://atc-conf.org/atc2017/>)



Date: October 18-20, 2017

Location: Quy Nhon, Vietnam

Themes:

LPWAN, IoT and applications..

Result:

The special session invited 9 articles by national and international authors. The articles of the conference are published in IEEE Xplore and the posters in the proceedings of the conference.

Super-Computing Camp 2017-2018 ([Web: http://www.sc-camp.org/2018/](http://www.sc-camp.org/2018/))

Date: July 8-15, 2018

Location: IUT Viet-Han (Vietnam-South Korea), Danang

Themes: Super-computing: Methods and Languages of Programming and Applications.

Result:

- 32 registrants who have received certificates, including
 - + 19 registered from the UD
 - + 5 registered from UCA
 - + 8 registered from other Vietnamese universities

Smart Campus Contest 2017-2018

Date: November 2017-April 2018

- Semi-final February 03, 2018
- Final scientific event April 23-24, 2018

Location: DUT campus (Danang)

Smart Campus Contest 2017-2018

Date: October 2017-March 2018

- Semi-final in January 2018 in each participating university
- Scientific events final; 20 March 2018 in the SCEI 2018 conference



Location: : 3 UC campuses: DUT (Danang University of Technology), UTE (University Technology and Education), SICT (School of Information and Communication Technology)

Major Themes:

- Smart Education
- Smart Building - Smart Identification
- Smart Services - Smart Campus Life- Smart Security.

Result:

- Semi-final 11 of 39 projects were selected for the final
- Final: 9 projects presented including 6 awards:
 - + 1 international prize (3 scholarships x 3 months at UCA to carry out the project)
 - + 1 UD prize: including 1 for instructors (100 Million VND grant) and 1 for students (50 Million VND grant)
 - + 3 participating university prizes: each of which includes 1 for students and- 1 for instructors

SCEI 2019 Symposium "Smart City: Experiences and Innovations" at the 13th International IEEE Conference RIVF "Research and Innovation Vision in the Future"



Date: March 20, 2019, Danang
Location: 41 LE DUAN, Danang
Themes:

Innovative experiences and applications for the Smart City.

Result:

- 1 day with 5 presentations, 1 round table and 39 exhibitions

- 145 participants with representatives of UCA, AUF and the French Embassy in Vietnam.

Participation in organizing the 13th International IEEE RIVF Conference RIVF "Research and Innovation Vision in the Future" (<http://rivf2019.udn.vn/>)

Date: March 20-22, 2019, Danang



Location: 41 LE DUAN, Danang

Themes: Innovative experiences and applications for the Smart City.

UCA / DNIIT Participation: 1/3 Program Chairs, 5/6 Track Chairs, 5/6 Session Chairs, 2/5 Keynotes

Result:

- 59 articles and posters / 120 proposals
- 221 participants

UCA Seminar Week

Date: March 18-22, 2019

Location: Danang



CERTIFIED SHORT TRAINING PROGRAMS

LoRaWAN Days

Date: October 30-November 2, 2018, Danang

Location: 3 campuses: DUT, UTE and SICT, Danang

Themes:

LoraWANT, IoT and monitoring applications on campus.

Result:

- 45 enrolled in total over the 3 campuses
- 7 LoRaWan presentations and workshops for the faculty of the 3 constituent universities
- Installation of 7 LoRa antennae on the 3 campuses (3 at DUT, 2 at UTE and 2 at SICT)



Themes:

LP-WAN, IoT and applications in the Smart City.

Result:

- 1-month online and face-to-face training
- 25 participants - DNIIT certificate

Seminar "Low power networks at the service of the smart city"



Date: November 7-9, 2018, Danang

Location: UTE (University of Technology and Education), Danang

Themes:

LP-WAN, IoT and applications in the Smart City.

Result:

- 2 training days with 16 participants - DNIIT certificate
- a day of seminars with 25 participants

"Programming with PYTHON language" training program

Date: November 7-9, 2018, Danang

Location: UTE (University of Technology and Education), Danang

Training on "LORA Low Power and Practice Networks"



Date: March 19, 2019, Danang

Location: 2 Quang Trung Danang (led by Danang City ICT)

Themes:

LP-WAN, IoT and applications in the Smart City.

Result:

- 2 training days with 16 participants - DNIIT certificate
- An installation of LORA antennas on a city building (1 outdoor fixed) and 1 indoor

MOBILITY

Mobility of UCA students for research or internship visits to DNIIT



Period: 2017 and 2019

Result

Total: 163 months of visits

- 2017: 53 months of visits in total
 - + 2 doctoral students including 1 computer science (info; 10 months), and 1 electronics (elec; 3 months)
 - + 2 masters including 1 info and 1 elec (2x6 months)
 - + 6 DUT including 4 info and 2 GEII (3x6 = 18 months)
- 2018: 55 months of visits in total
 - + 3 doctoral students including 1 info (10 months), 1 info (6 months) and 1 water engineering (water)/env (4 months)
 - + 2 masters including 1 info and 1 elec (3x6 months)
 - + 2 masters 1 including 1 Polytech elec and 1 IAE management (2x4 months),
 - + 3 DUT info (3x3 months)
- 2019: 55 months of visits in total
 - + 3 doctoral students including 1 water environment (6 months) and 1 eco (3 months)
 - + 1 masters 2 elec (6 months)
 - + 6 DUT including 4 info and 2 GEII (3x6 = 18 months)

Mobility of UD students for visits to UCA



Period: from May 2017 to April 2019

Result

Total: 150 months of visits

- 2017: 93 months of visits in total
 - + 3 doctoral students info, 1 water and 1 chemistry (5x12 = 60 months)
 - + 2 doctoral students eco (6x2 = 12 months)
 - + 3 doctoral students including 1 info and 2 economy (eco) for 3 months (3x3 = 9 months)
 - + 2 masters including 1 info and 1 elec (3x6 = 18 months)
 - + 1 bachelor (6 months)
- 2018: 66 months of visits in total
 - + 5 doctoral students including 2 info, 2 water and 1 eco (12x5 = 60 months)
 - + 1 doctoral student in languages for 6 months
- 2019: 58 months of visits in total
 - + 4 doctoral students 12 months including 1 info, 1 env, 1 water and 1 eco (4x12 = 48 months)
 - + 2 doctoral students of 5 months including 1 eco and 1 language (2x5 = 10 months)



UD faculty mobility for a short stay at UCA

Period: from May 2017 to April 2019

Result:

Total: 42 weeks of visits

- 2017: 12 weeks (6 visits of 2 weeks)
- 2018: 23 weeks (10 visits of 2 weeks and 3 visits of one week)
- 2019: 7 weeks (3 visits x 2 weeks + a 1 week visit)

UCA faculty mobility for research visits to DNIIT

Period: from May 2017 to April 2019

Result:

Total: 61 weeks of visits

- 2017: 22 weeks (12 visits)
- 2018: 19 weeks (9 visits)
- 2019: 20 weeks (14 visits)

COLLABORATIONS

Collaboration with the constituent universities of the UD

- April 22, 2018: Signing of a memorandum of collaboration with DUT (Danang University of Technology) on research collaboration and the Smart-Campus (with co-signature of UCA and AUF)
- June 06, 2018: signing of a memorandum of collaboration with the University of Technology and Education (UTE) on research collaboration and the Smart-Campus (with co-signature of UCA and UD)
- June 07, 2018: Signing of a memorandum of collaboration with the School of Information and Communication Technologies (SICT) on research collaboration and the Smart-Campus (with co-signature of UCA and UD)



Collaboration with national organizations

- Department of Science and Technology of Danang City. Several projects submitted.
- Department of Telecommunications and Networks of Danang City. Several project meetings submitted.
- Training on LoRa technologies and antenna installations (18- 19/03/2019)

- Memorandum of collaboration signed (20/03/2019)
- Ministry of Science and Technology of Vietnam. A project in the process of being finalized
- Academy of Science and Technology. A LIA project in the IoT-AI domain is currently being discussed with CIC (Mathematics and Computing Center).
- Memorandum with the Economic Policy Institute on the collaboration of short and long (Masters) courses on the themes of "regional management" (October 30, 2018)

Collaboration with international organizations



- Signature of a Master2 e-Tourism training agreement with AUF, UD and UCA (May 12, 2017)
- Signature of a memorandum of collaboration with UCA and UD on research collaboration and Smart-Campus (August 22, 2017)

7 DNIIT RESOURCES

- In terms of human resources, DNIIT currently benefits from the provision by UCA and UD of two part-time faculty members, a secretary and an accounting officer. The project-teams working within DNIIT are composed of faculty and students who remain assigned in their original component organization.
- The movement of faculty, students and staff is financed by various scholarships obtained under the national or Erasmus + programs as well as by the laboratories and other components of UCA or the UD.
- Funding for the initial phase has been assumed by UCA's IDEX and AUF. Project-teams operate on their own resources, in particular by responding to various calls for proposals. Around a hundred thousand euros have already been raised from various institutions to carry out the activities. Grant proposal submissions are ongoing and are expected to significantly increase the funds raised in the coming months.
- The Danang International Institute of Technology is currently provided 340 m² by the University of Danang (UD). To maximize interactions with various disciplines, these premises are distributed across several components of the UD. An open space DNIIT of around 100 m² is available on the campus of the Presidency of UD to ensure certain visibility for the institute. The rooms deployed across the components are equipped with adequate equipment to carry out the research projects.

PUBLICATIONS

Note: This list includes publications carried out under the collaboration agreements with the University of Danang in recent years in connection with the IDEX project DNIIT/MIRE

I. PhD theses defended (researchers having a research stay at DNIIT or originating from UD)

[18.T1] Ngoc Ly TA.

Dissecting the Fas life-death signaling pathways in the colorectal cancer: Importance of the Fas-Epidermal growth factor receptor (EGFR) crosstalk. Thèse de doctorat, Université Côte d'Azur, Octobre 2018

[18.T02] D. M. TRAN.

Discovering multi-relational association rules from ontological knowledge bases to enrich ontologies. Thèse de doctorat, Université Côte d'Azur-Université de Danang, Juillet 2018, <https://tel.archives-ouvertes.fr/tel-01926812>

[18.T03] Chaka KONE.

Architecture Logicielle et Matérielle d'un Système de Détection des Emotions utilisant les Signaux Physiologiques. Application à la Mnémothérapie Musicale. Thèse de doctorat, Université Nice Sophia Antipolis, 01 Juin 2018. [tel-01936711]

[17.T01] Tuan Anh PHAM.

OntoApp: une approche déclarative pour la simulation le fonctionnement d'un logiciel dès une étape précoce du Cycle de vie de développement. Thèse de doctorat, Université Nice Sophia Antipolis, 21 Septembre 2017. [hal :tel-01680766]

[15.T01] Thi-Hoa-Hue NGUYEN.

La vérification de patrons de workflow métier basés sur les flux de contrôle : Une approche utilisant les systèmes à base de connaissances. Thèse de doctorat, Université Nice Sophia Antipolis, 23 juin 2015. [hal :tel-01185062]

[15.T02] Thi-Khanh-Hong NGUYEN.

Conception faible consommation d'un système de détection de chute. Thèse de doctorat, Université Nice Sophia Antipolis, 10 novembre 2015. [hal : tel-01288526]

II. Articles in scientific journals [18.J01] Chaka Koné, Cécile Belleudy, Nhan Le Thanh.

Performance Comparison of the KNN and SVM Classification Algorithms in the Emotion Detection System EMOTICA. International Journal of Sensor Networks and Data Communications, vol. Vol7 (1), forthcoming, [https:// hal.archives-ouvertes.fr/hal-01706559](https://hal.archives-ouvertes.fr/hal-01706559)

[18. J02] Ta NL, Chakrabandhu K, Huault S, Hueber AO.

The tyrosine phosphorylated pro-survival form of Fas intensifies the EGF-induced signal in colorectal cancer cells through the nuclear EGFR/STAT3-mediated pathway. Sci Rep. 2018; 8: 12424. doi: 10.1038 / s41598-018-30804-z.

[18-J03] N.D. Vo, T.H. Nguyen & P.

Gourbesville,

The role of a hydro reservoir system in flood control - The Vu Gia Thu Bon catchment, Vietnam, The International Journal on Hydropower & Dams, Vol.25, Issue 2, pp. 37-39, 2018.

[17. J01] Nguyen Thi Khanh Hong.

Power estimation model for fall detection system. Author: Journal of Science and Technology, The University of Da Nang. No: 11 (120), Vol 4. Pages: 20-24. Year: 2017.

[17-J02] The Can Do, Gaëtan Rey, Jean-Yves Tigli, Stéphane Lavrotte, Nhan Le Thanh.

Intermediate Common Model—The Solution to Separate Concerns and Responsiveness in Dynamic Context-Aware System, Journal of Computer and Communications, 2017, 5, 44-59. ISSN Online: 2327-5227, ISSN Print: 2327-5219

[16. J01] Nguyen Thi Khanh Hong, Nguyen Trong Tuan.

Designing the 32-Bit Microprocessor with Risc Architecture and Implementation on Fpga Platform. Journal of Science and Technology, The University of Da Nang. No: 5. Pages: 47:53 Year: 2016.

[16-J02] Chakrabandhu, Huault S, Ta Ngoc Ly. et al.

An Evolution-Guided Analysis Reveals a Multi-Signaling Regulation of Fas by Tyrosine Phosphorylation and its Implication in Human Cancers. PLoS Biol 14, e1002401, <https://doi.org/10.1371/journal.pbio.1002401>

PBIOLOGY-D-15-02701 [pii] (2016).
 [16-J03] Nguyen Thi Khanh Hong, Le Huu
 Duy, Pham Van Tuan, Cecile Belleudy.
 Boosting frame rate Performance of Fall
 Detection system on Heterogeneous
 Platform. Journal of Science and
 Technology, The University of Da Nang.
 No: 6(103). Pages: 11-16 Year: 2016
 [15-J01] Thi-Hoa-Hue Nguyen and Nhan
 Le-Thanh.
 Coloured Petri Nets-based Approach
 for Manipulating RDF Data. Journal of
 Automation and Control Engineering
 (JOACE), vol. 3, no. 2, pages 171-177,
 April 2015. Link: <https://hal.inria.fr/hal-01018423v1>

III. Articles in international conferences with selection and proceedings

[19-A01] Tran Duc Minh, Claudia d'Amato,
 Andrea Tettamanzi and Thanh Binh
 Nguyen.
 Constructing Metrics for Evaluating
 Multi-Relational Association Rules in the
 Semantic Web from Metrics for Scoring
 Association Rules. In proceedings of the
 13e RIVF (Research, Innovation and Vision
 for the Future) Int. IEEE Conference.
 March 20-22, 2019, Danang, Vietnam
 (accepted).
 [19-A02] Can Do, Rey Gaetan, Jean-Yves
 Tigli and Nhan Le Thanh
 From BPMN to live application: How
 the context can drive an auto-adapted
 system. In proceedings of the 13e RIVF
 (Research, Innovation and Vision for the
 Future) Int. IEEE Conference. March 20-
 22, 2019, Danang, Vietnam (accepted).
 [19-A03] T.H. Nguyen, P. Gourbesville.
 Optimization of spillway operation for
 flood mitigation in multi-reservoirs river
 system", SimHydro 2019, Nice, France,
 June 2019 (accepted).
 [19-A04] T.H. Nguyen, P. Gourbesville
 Pre-release strategy for flood control
 in the multi-reservoir and rivers system.
 SimHydro 2019, Nice, France, June 2019
 (accepted).
 [18-A01] M. TRAN DUC, C. D'AMATO, B.
 T. NGUYEN, A. G. B. TETTAMANZI.
 Comparing Rule Evaluation Metrics for
 the Evolutionary Discovery of Multi-
 Relational Association Rules in the
 Semantic Web, in "Genetic Programming-
 21st European Conference (EuroGP
 2018)", Parma, Italy, M. CASTELLI, L.
 SEKANINA, M. ZHANG, S. CAGNONI,
 P. GARCÍA-SÁNCHEZ (editors),
 Genetic Programming - 21st European
 Conference, EuroGP 2018, Parma, Italy,
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