

Data Science

Knowledge Technology Laboratory

Room 310-312, E3 Building, VNU-UET

ABOUT US



- > Top conferences
- Scopus journals/conferences
- > Patents

Publications: 130+ (2015-2022)

Collaboration



- > National project: 5+ projects.
- > Ministerial project: 6+ projects.
- > UET&VNU project: 20+ projects.
- > Industrial project: 2++ project.

Total grant: 30+ billion VND

Teaching Courses

Data Mining

Advanced Topics of Information System

E-commerce Systems

Domain-driven data mining

Big data processing

Visual data analysis

Principles of Operating Systems

Etc.







DS&KTLAB, FIT

HISTORY



Organize weekly scientific seminars for more than 20 years.

The predecessor: "the Data Mining and Application Research Group" (1998 - 2006)

Founded since 2010 as the Satellite Laboratory "Knowledge Technology and Data Safety" (2006-2010)

Officially established on November 15, 2010

RESEARCH

direction





NLP & TEXT/WEB MINING

- Opinion Mining
- Sentiment Analysis
 - BioNLP
- Intention Mining
- Question & Answering
 - Dialogue Systems



PROCESS MINING

- Abstraction of Events
 - Trace Clustering
 - Concept Drift
 - Process discovery
- Process conformance
- Model enhancement



KNOWLEDGE INTEGRATION

- Entity Alignment
- Ontology Construction
- Ontology Enhancement
 - Online Learning Task
- Reinforcement Learning Task



DATA AND BUSINESS ANALYTICS

- Customer Insight
- Sequential Recommendation
- Upsell/cross-sell Recommendation
 - Market Basket Analysis
 - Customer Satisfaction Analysis
 - Opinion Mining

LECTURERS



LECTURERS

Assoc. Prof. Ha Quang Thuy

- Rough set Mining
 Data Mining (Text, Web, etc.)
 Process Mining
 Lifelong Learning
 - Business Analysis
 - 🖄 thuyhq@vnu.edu.vn



- Assoc. Prof. **Phan Xuan Hieu**
- ✤ Machine Learning
- Natural Language Processing
 - Business Intelligence
 - Business Analysis





Assoc. Prof. Tran TrongHieu

- * Knowledge Technology
 - ✤ E-commerce
- Computer Architecture
- Information Safety
- Project Management







Data Mining (Text/Web, etc.)Natural Language Processing

- Big Data Analysis
 - Business Analysis





Dr. Le Hoang Quynh

Natural language processing
 Data mining
 Business intelligent
 Machine learning

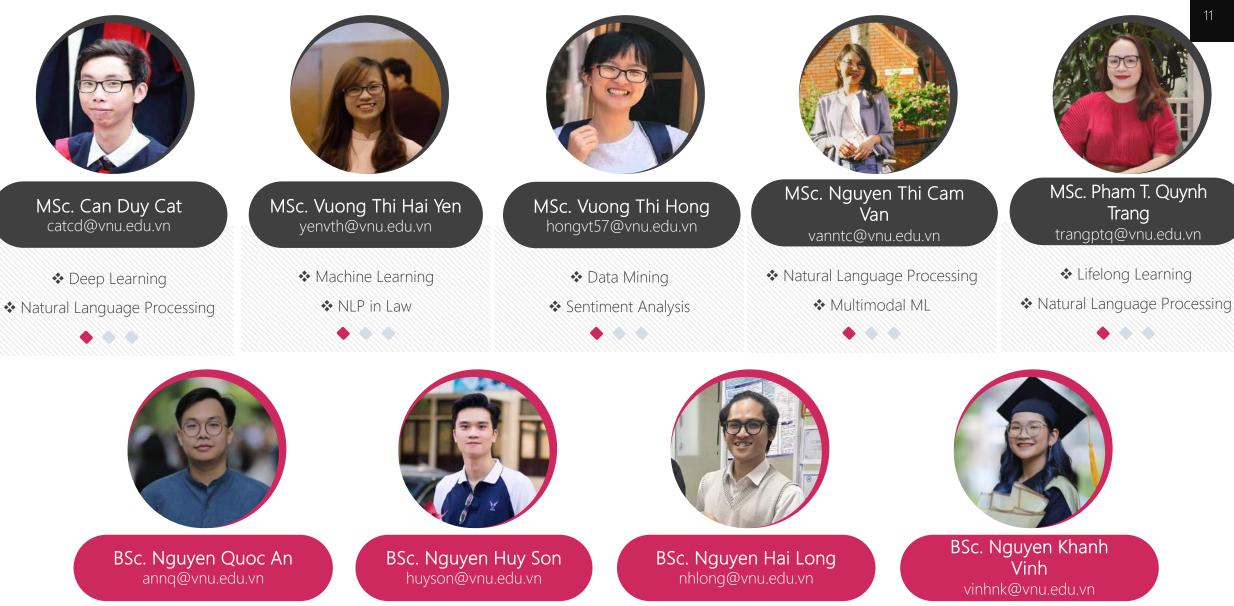


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LECTURERS



ADJUNCT LECTURERS



Assoc. Prof. Nguyen Cam Tu	Dr. Nguyen Viet Cuong	Dr. Nguyen Thanh Son	Dr. Vu Tien Thanh	Dr. Tran Nam Khanh
Nanjing University of Science and	HPC SYSTEMS Inc.	Singapore	Australia	Amazon
Technology	Japan			Germany
China 🔶 🌢 🌢	• • •	• • •	• • •	• • •



OUR PROJECTS

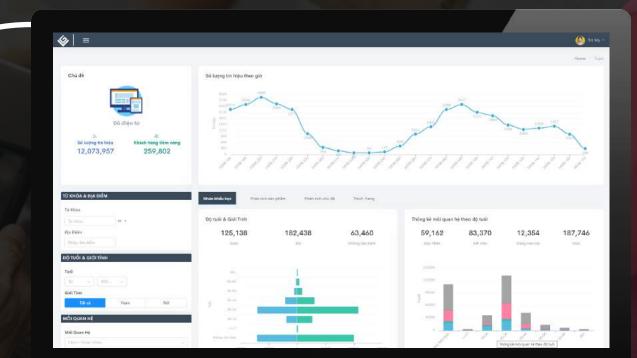


DC: DEEP CUSTOMER

An automated customer analytics and understanding platform towards application in retail, e-commerce, and online advertising.

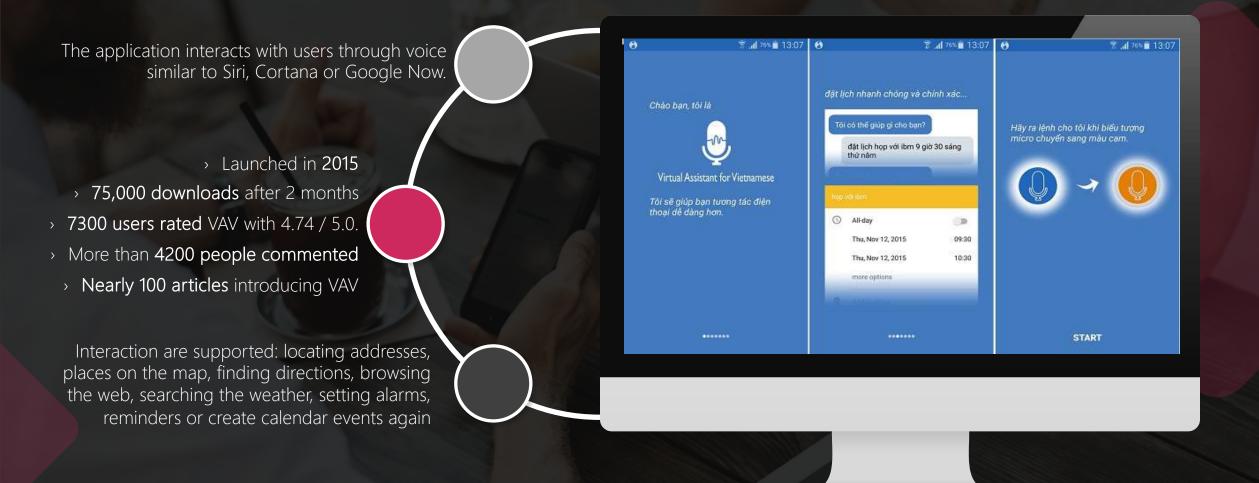
- Customer insight
- > Market research
- Business/marketing analytic
 - → Price optimization
- > Up-sell/cross-sell Recommendation

Machine learning (Deep Learning, Image Processing, Natural Language Processing, etc.); Big data; Business model canvas





VAV: VIRTUAL ASSISTANT FOR VIETNAMESE



DS&KTLAB, FIT

OTHER PROJECTS



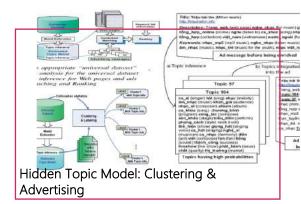
VnLoc: News Event Monitoring





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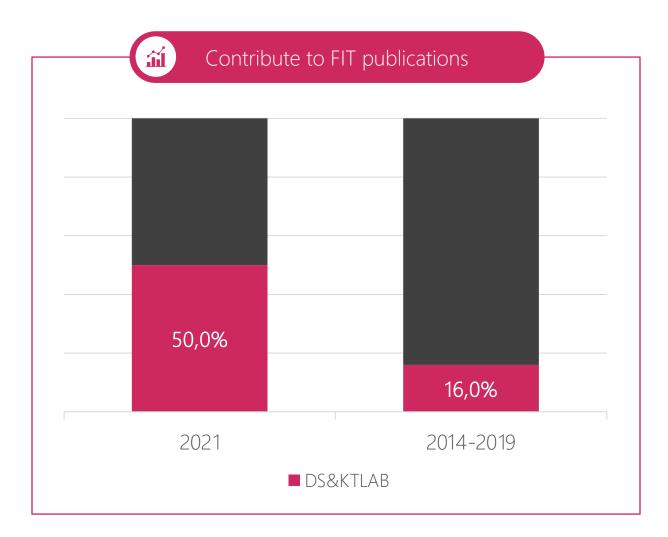
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PUBLICATIONS



PUBLICATIONS





~20 publications each year

Top conferences: IJCAI, AAAI, ACL, KDD, ACM TALIP, CoNLL, WWW, EMNLP, NAACL, ACM CIKM, etc.

ISI, SCI, SCIE journal: PLoS One, Oxford Database, Bioinformatics, ACM TWEB, IEEE TKDE, Journal on AI Tools, etc,

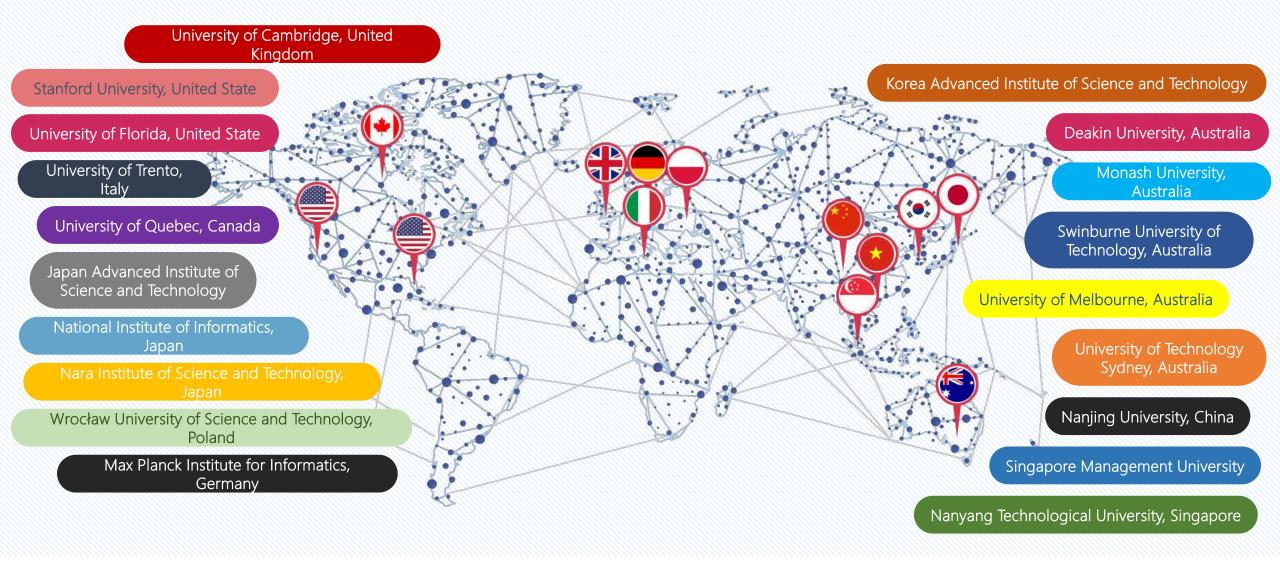


COLLABORATION





COLLABORATION





COLLABORATION



With prof. N. Collier at EMNLP 2018, Belgium







Prof. Katayama (President, **JAIST – Japan**) visited DIS



Seminar with **Datasection Group**. Japan



Signed MOU with Kyioki Lab, Keio University



Collaborated with Saltlux Corp, Korea, held a seminar on Opinion Mining, 2010



Presented at ACIIDS 2018, Danang, Vietnam

HONORS AWARDS



HONORS AND AWARDS



DS&KTLAB

Merit from the Prime Minister

Merit from the Ministry of Education and Training

Strong research group

Science and technology awards



LECTURERS

Golden Globe Awards

Typical young faces

Labor Medal

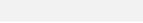
Merit from the Ministry of Education and Training



STUDENTS

Student research awards Honda YES and YES plus awards 6 valedictorians Enterprise scholarships: Samsung,

Panasonic, VIN, Viettel etc.



ALUMNI





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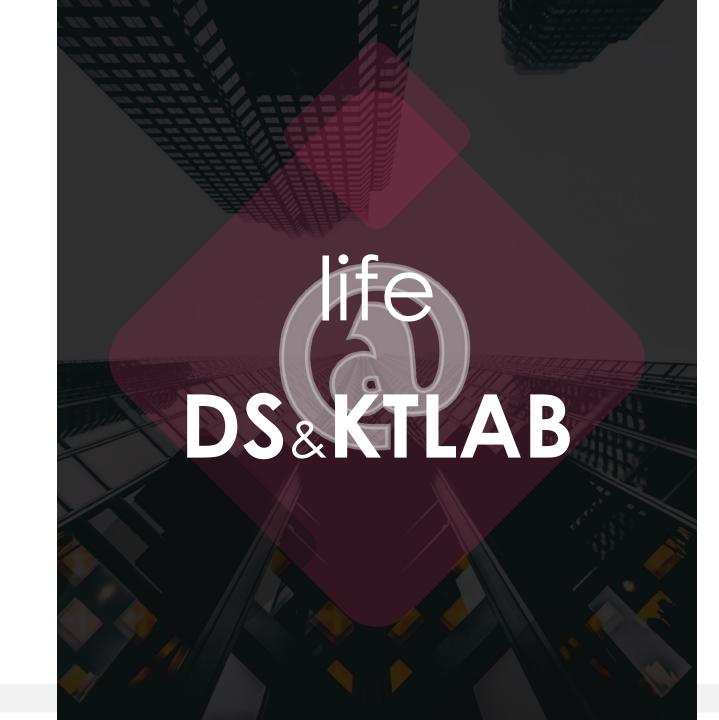
- > Excellent thesis defense results
 - > Good research results
 - > Many honor awards

200++ Bachelors 100+ Masters 10+ Doctors

10-30 students each year

- Good position at top companies: Viettel, FPT, Samsung, Panasonic, Google, Amazon, Microsoft, etc.
- PhD and MSc scholarships at top universities.





























THANK YOU

