



## TRAN DUY THANH

Lecturer - Faculty of Information Systems, University of Economics and Law, VNU-HCM Vietnam

ROBOTICS | AI | BIG DATA | TOPIC MODEL | SOCIAL NETWORK ANALYSIS

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### ABOUT ME

- I finished Bachelor of Computer Science at 2007 from the Industrial University of Ho Chi Minh City, and Bachelor of Business Administration at 2010 from the University of Economics in Ho Chi Minh City. Also, I received M.S. degree in computer science from University of Information Technology, VNU-HCM, Vietnam at 2015. Since July 2016, I has become Full Lecturer in Faculty of Information Systems, University of Economics and Law, VNU-HCM, Vietnam.
- Since March 2021, I am becoming Ph.D. Course of Department of Data Informatics, (National) Korea Maritime and Ocean University, Busan 49112, Republic of Korea (South Korea).
- My research interests are social network analysis, big data, AI and robotics.
- Participating in many domestic and international projects, teaching many universities and companies.
- I received Best Paper Award the 15th International Conference on Multimedia Information Technology and Applications (MITA 2019)
- I am co-author books: Basic mobile application development (ISBN: 978-604-73-5672-0), Advanced mobile application development (ISBN: 978-604-73-5673-7), Basic programming techniques (ISBN: 978-604-73-7187-7), Advanced programming techniques (ISBN: 978-604-73-7493-9).
- I am Associate Editor at Human-centric Computing and Information Sciences (HCIS), Springer Berlin Heidelberg (SCIE/SCOPUS indexed)
- My motto is "Working Hard and Smart today for a better tomorrow!"

### PUBLICATIONS

#### PROJECTS:

- [1] Building a social network analysis system by topic and applying it to the university's social network (No: B2013-26-02), 2015.
- [2] Developing an electronic customer relationship management system on a mobile platform (No: CS/2017-18), 2018.
- [3] Building a simulated e-marketplace for e-commerce research and training (No: C2017-34-03), 2019.
- [4] Explore and visualize user communities on social networks using Kohonen neural network methods and topic modeling (No: CS2018-01), 2019.
- [5] Developing a supply chain management model in e-commerce integrated with a simulated e-market system (No: CS/2019-10), 2021.

#### JOURNALS:

- [1] Thanh Tran, Thanh Ho and Phuc Do, Detecting Communities and Surveying the Most Influence of Online Users ACSIJ Advances in Computer Science: an International Journal, Vol. 4, Issue 6, No.18, pp. 173-179, 2015, ISSN : 2322-5157.
- [2] Thanh Ho, Thanh Tran, Mobile-Based Electronic Customer Relationship Management System, Industry and trade magazine, No 11, 08/2018, ISSN: 0866-7756.
- [3] Thanh Ho, Thanh Tran, Integrating Scan Mobile With Electronic Signage Solution In Supermarket And Retail Store, Science and Technology Development Journal - Economics-Law And Management(STDJELM), 2018, ISSN: 2588 - 1051
- [4] Thanh Ho, Thanh Tran, Proposed Simulated Electronic Market Solution For E-Commerce Research And Training, Science and Technology Development Journal - Economics-Law And Management(STDJELM), 2019, ISSN: 2588 - 1051
- [5] Thanh Ho, Thanh Tran, Explore and Visualize Social Networking Communities Based on Theme Models Combined with Ron Kohonen Neural Networks, Science and Technology Development Journal -Economics-Law And Management(STDJELM), 2019, ISSN: 2588 - 1051
- [6] Thanh Ho and Tran Duy Thanh. Discovering Community Interests Approach to Topic Model with Time Factor and Clustering Methods. Journal of Information Processing Systems, 2021, 17(1), 163-177. DOI: 10.3745/JIPS.04.0206. (Scopus Q2)
- [7] Duy Thanh Tran, Jun-Ho Huh. Building a Model to Exploit Association Rules and Analyze Purchasing Behavior based on Rough Set Theory. The Journal of Supercomputing Springer, 2021, ISSN:13601-13628. (SCI, IF: 2.474) (accepted date: 20 Dec 2021)

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## CONFERENCES:

- [1] Nguyen Trac Thuc- Tran Duy Thanh. Discovering the community and the factors that have great influence in the community on social networks, University of Information Technology, UIT Young Science Conference, 2014.
- [2] Thanh Tran, Thanh Ho. Integrated solution for electronic labeling by mobile for supermarkets and retail stores, Information system in business and management, 2017
- [3] Thanh Tran, Thanh Ho. Detecting Communities of Online Users from Text Corpus Based on Topic model, Statistical Challenges in Electronic Commerce Research(SCECR 2017)
- [4] Thanh Ho, Thanh Tran. SIMULATE ELECTRONIC MARKET SOLUTIONS FOR E-commerce RESEARCH AND TRAINING, 2018
- [5] Phuc Nguyen, Thanh Tran, Anh Thu. Analyzing Sentiment of Users Based on Exploitation of Social Network Structure, The 15th International Conference on Multimedia Information Technology and Applications (MITA 2019) ISSN: 1975-4736 (Best Paper Award)
- [6] Vy Vu Tuong, Hau Le Quoc, Huy Truong Dang, Vy Tran Long, Tran Duy Thanh (2019) DESIGN OF SCIENTIFIC RESEARCH GROUP FORMATION AND EXCHANGING DOCUMENTS SYSTEMS, The 15th International Conference on Multimedia Information Technology and Applications (MITA 2019) ISSN: 1975-4736
- [7] Nguyen Quang Phuc, Tran Duy Thanh, Nguyen Anh Thu. Exploiting combinations of visual, audio and text features to improve the quality of video search results clustering. UEL Young Science Conference, 2019.
- [8] Tran Duy Thanh, Le Ba Thien. IoT application in monitoring and controlling the status of machines in production plants. MIS Conference - Information systems in business and management, 2019.
- [9] Nguyen Quang Phuc, Tran Duy Thanh, Nguyen Thi Anh Thu. Feature extraction in the flow of social network graphs according to distributed computing model. MIS Conference - Information systems in business and management, 2019.
- [10] Tran Nguyen Phuc(Ego pulse, JSC., VietNam), Duong Thi Thuy Nga(Ho Chi Minh University of Science, VietNam), Tran Duy Thanh(University of Economics and Law, Viet-Nam). BUILDING A TEMPERATURE FORECASTING MODEL FOR THE CITY WITH THE REGRESSION NEURAL NETWORK (RNN), The 6th International Conference for Small - Medium Business (2020). ISSN: 2288-9876.
- [11] Tran Duy Thanh, Le Ba Thien, Jun-Ho Huh. Building a Human Resource Education Training Model based on One Point Lesson and Big Data Analysis. The 17th International Conference on Multimedia Information Technology and Applications, ISSN: 1975-4736 @MITA 2021

## BOOKS:

- [1] Le Hoanh Su, Ho Trung Thanh, Tran Duy Thanh. Basic mobile app development, ISBN: 978-604-73-5672-0, 2017, Publisher: VNU HCM
- [2] Le Hoanh Su, Ho Trung Thanh, Tran Duy Thanh. Advanced mobile app development, ISBN: 978-604-73-5673-7, 2017, Publisher: VNU HCM
- [3] Ho Trung Thanh, Tran Duy Thanh, Truong Hoai Phan. Basic programming techniques, ISBN: 978-604-73-7187-7, 2019, Publisher: VNU HCM
- [4] Ho Trung Thanh, Tran Duy Thanh, Truong Hoai Phan. Advanced programming techniques, ISBN: 978-604-73-7493-9, 2020, Publisher: VNU HCM
- [5] Nguyen Van Tho, Tran Duy Thanh, Pho Hai Dang. Object Oriented Programming, 2021, Publisher: Banking University of Ho Chi Minh City

**EXPERIENCE**

- 03/2021 – present **Researcher** **Full time PhD. Student**  
Department of Data Informatics, (National) Korea Maritime and Ocean University, Busan 49112, Republic of Korea. Data Science Lab 
  - Research Big Data
  - Research Data mining techniques
  - Research Machine Learning tool, Tensorflow, Keras...
  - Research on community mining in social networksTechnologies used: ROBOTICS AI BIG DATA DATA MINING MACHINE LEARNING HADOOP SPARK
- 2016 – present **Lecturer** **Full Lecturer**  
Faculty of Information Systems, University of Economics and Law, VNU-HCM 
  - Teaching subjects such as Logical Thinking in Programming, Programming Techniques, Algorithms, Data Analysis with R/Python, Business web development, Mobile Commerce (M-Commerce)
  - Participate in the development of curriculum and training programs...
  - Participate in training program accreditation...
  - Deputy Head of e-Commerce department, October-2019Technologies used: JAVA C-SHARP ASP.NET MVC WPF PYTHON C/C++ ANDROID ETC
- 11/20/2020 – 01/27/2021 **Senior Training Specialist** **Training expert**  
HYUNDAI KEFICO Corporation 
  - Training Java programming
  - Training Kotlin programming
  - Training LINQ programming
  - Training Restful API programming
  - Training Full Stack Android Mobile applicationTechnologies used: JAVA KOTLIN LINQ REST API ANDROID SECURITY
- 06/30/2018 **Training collaboration** **Training expert**  
Google Vietnam Company 
  - Teaching the topic of Digital 4.0Technologies used: DIGITAL 4.0
- 2019 – 2020 **Lecturer** **Visitor Lecturer**  
Faculty of Information Systems, FPT University 
  - Teaching Java core Algorithm programming
  - Teaching Java Advanced programmingTechnologies used: JAVA
- 2017 – 2020 **Lecturer** **Visitor Lecturer**  
Faculty of Information Systems, Ho Chi Minh City University of Technology 
  - Teaching Windows programming
  - Teaching Mobile programming
  - Graduation thesis guidance consultationTechnologies used: JAVA C-SHARP ASP.NET MVC .NET CORE ANDROID

2016 – present

### Online training collaboration

Elearning Trainer

Topica educational technology complex company

- Support and advise the company to build online training standards
- Teaching online course C++ Programming Techniques
- Teaching online course Object Oriented Programming with Java
- Teaching online course Python Programming
- Teaching online course C Sharp Programming
- Teaching online course Android Programming
- Teaching online course Java JDBC Programming

Technologies used:

JAVA C-SHARP PYTHON C/C++ ANDROID

2016 – present

### Online training collaboration

Elearning Trainer

Unica Online Training Joint Stock Company

- Support and advise the company to build online training standards
- Teaching online course C++ Programming Techniques
- Teaching online course Algorithms
- Teaching online course Object Oriented Programming with Java
- Teaching online course Python Programming
- Teaching online course C Sharp Programming
- Teaching online course Android Programming
- Teaching online course Kotlin Programming
- Teaching online course Zalo SDK Programming

Technologies used:

JAVA C-SHARP PYTHON C/C++ ANDROID KOTLIN ZALO

2016 – present

### Online training collaboration

Elearning Trainer

Navigos Group Vietnam Joint Stock Company

- Support and advise the company to build online training standards
- Teaching online course Object Oriented Programming with Java
- Teaching online course Python Programming
- Teaching online course Android Programming
- Teaching online course LINQ Programming
- Teaching online course Zalo SDK Programming

Technologies used:

JAVA PYTHON ANDROID LINQ ZALO

2014 – 2017

### Lecturer

Visitor Lecturer

Informatics Center - University of Natural Sciences - Ho Chi Minh City

- Compilation of programming textbooks for mobile devices
- Teaching basic programming c++
- object-oriented programming with Java
- Android Mobile Programming
- Windows Phone Programming
- Web Restful API
- Organize seminars on new technology

Technologies used:

JAVA C-SHARP WEB API C/C++ ANDROID WINDOWS PHONE

2014 – 2017

### Head of Strategy Division

Full time Job

Hung Gia Saigon Joint Stock Company

- Head of Strategy Division
- Project management
- Negotiate contracts and decide on company development strategy

Technologies used:

ECONOMICS PREDICTION NEGOTIATE MANAGEMENT

2012 – 2014

### Lecturer

Faculty of Information Systems, Dong Nai University of Technology 

Full Lecturer

- Head of software engineering department
- Teaching basic programming c++
- Teaching Algorithms
- Teaching C Sharp
- Teaching database programming
- Teaching object-oriented programming with Java
- Teaching advanced Java
- Teaching Web development
- Teaching Advanced programming technology
- Android Mobile Programming

Technologies used:

JAVA C-SHARP C/C++ ANDROID JAVASCRIPT XML VISIO LING HTML ASP.NET

2009 – 2012

### Lecturer

Department of Computer science and engineering, Industrial University of Ho Chi Minh City 

Full Lecturer

- Compilation of office informatics documents and programming techniques
- Teaching basic programming c++
- Teaching Algorithms
- Teaching C Sharp
- Teaching database programming
- Teaching object-oriented programming with Java
- Teaching advanced Java
- Android Mobile Programming

Technologies used:

JAVA C-SHARP C/C++ ANDROID JAVASCRIPT XML VISIO

2005 – 2010

### Software Engineering

KIC company. KIC is a technology company working to make reflow ovens smarter through thermal profiling, automation and optimization solutions. 

Full time Job

- Participating in System Profiling projects, including discussion, software design, programming, and testing support. Some of the projects involved in the process of working at the company:
- Project KIC 2000
- Project KIC 24/7
- Project SunKIC
- Project KIC Starter
- Project KIC RPI
- Project KIC Vision
- Project KIC Auto Focus

Technologies used:

C++ VISUAL C MFC JAVASCRIPT PLC SENSOR SMART OVEN

✔ Methodologies and Techniques

|  |        |
|--|--------|
| Design patterns & Refactoring techniques | ●●●●●● |
| Domain Driven Design   DDD               | ●●●●●● |
| Testing Approaches                       | ●●●●●● |
| Prototyping                              | ●●●●●● |
| Process agility & workplace humanization | ●●●●●● |

✔ Platforms and server technology

|               |        |
|---------------|--------|
| Tomcat, MYSQL | ●●●●●● |
| Docker        | ●●●●●● |
| Google Cloud  | ●●●●●● |
| SQL Server    | ●●●●●● |
| MongoDB       | ●●●●●● |

✔ Design & Documentation tools

|                             |        |
|-----------------------------|--------|
| Visio                       | ●●●●●● |
| Power Designer              | ●●●●●● |
| draw.io                     | ●●●●●● |
| Document generation         | ●●●●●● |
| Atlassian Confluence & Jira | ●●●●●● |

✔ Frameworks & libraries

|                |        |
|----------------|--------|
| Hibernate      | ●●●●●● |
| JDBC           | ●●●●●● |
| Open API, RASA | ●●●●●● |
| LINQ           | ●●●●●● |
| Hadoop Spark   | ●●●●●● |

✔ Programming & Scripting languages

|                            |        |
|----------------------------|--------|
| Java, Android programming  | ●●●●●● |
| Kotlin                     | ●●●●●● |
| Python                     | ●●●●●● |
| JavaScript & TypeScript    | ●●●●●● |
| C Sharp, Windows Form, WPF | ●●●●●● |
| C ++                       | ●●●●●● |

✔ Frontend frameworks & Libraries

|                        |        |
|------------------------|--------|
| Angular & AngularJS    | ●●●●●● |
| jQuery                 | ●●●●●● |
| Node js                | ●●●●●● |
| Static site generators | ●●●●●● |
| Selenium & Cypress     | ●●●●●● |
| Wordpress              | ●●●●●● |

✔ Markup languages

|                     |        |
|---------------------|--------|
| XSD & XML           | ●●●●●● |
| XAML                | ●●●●●● |
| HTML                | ●●●●●● |
| CSS   SCSS   SASS   | ●●●●●● |
| AsciiDoc   Markdown | ●●●●●● |
| LaTeX               | ●●●●●● |

✔ Development tools

|                                    |        |
|------------------------------------|--------|
| Maven                              | ●●●●●● |
| Gradle                             | ●●●●●● |
| Git                                | ●●●●●● |
| Remix Ethereum Blockchain platform | ●●●●●● |
| Android Studio                     | ●●●●●● |
| Visual Studio                      | ●●●●●● |

1. Top 1 Google search with keywords "tran duy thanh", "duy thanh kotlin", "lap trinh kotlin toan tap", "kotlin toan tap", "duythanhcse", "duythanhcse android".
2. My Blog for Teaching Programming Languages <https://duythanhcse.wordpress.com/> (more than 6.199.000 visitors)
3. Facebook group support teaching programming language <https://www.facebook.com/groups/communityuni/> (more than 8.700 members)
4. Elearning for video Programming language <https://unica.vn/> and <https://edumall.vn/> (about more than 30.000 activated accounts)

| List of Media for Programming Languages |   |   |
|---|---|---|
| No.                                     | Media title                               | Link  |
| 1                                       | Complete set of C programming language    | <a href="https://unica.vn/toan-tap-ngon-ngu-lap-trinh-c">https://unica.vn/toan-tap-ngon-ngu-lap-trinh-c</a>                         |
| 2                                       | Data Structures and Algorithms- Volume 1  | <a href="https://unica.vn/cau-truc-du-lieu-va-giai-thuat-tap-1">https://unica.vn/cau-truc-du-lieu-va-giai-thuat-tap-1</a>           |
| 3                                       | Data Structures and Algorithms - Volume 2 | <a href="https://unica.vn/cau-truc-du-lieu-giai-thuat-tap-2">https://unica.vn/cau-truc-du-lieu-giai-thuat-tap-2</a>                 |
| 4                                       | Programming Zalo with Android SDK         | <a href="https://unica.vn/lap-trinh-zalo-voi-android-sdk">https://unica.vn/lap-trinh-zalo-voi-android-sdk</a>                       |
| 5                                       | Basic Android Programming                 | <a href="https://unica.vn/la-p-tri-nh-android-co-ban">https://unica.vn/la-p-tri-nh-android-co-ban</a>                               |
| 6                                       | Advanced Android Programming              | <a href="https://unica.vn/la-p-tri-nh-android-nang-cao">https://unica.vn/la-p-tri-nh-android-nang-cao</a>                           |
| 7                                       | Master C++ through 108 lessons            | <a href="https://unica.vn/thanh-thao-c-qua-108-bai-hoc">https://unica.vn/thanh-thao-c-qua-108-bai-hoc</a>                           |
| 8                                       | Master Python in 4 weeks                  | <a href="https://unica.vn/lam-chu-python-trong-4-tuan">https://unica.vn/lam-chu-python-trong-4-tuan</a>                             |
| 9                                       | Java programming in 4 weeks               | <a href="https://unica.vn/lap-trinh-java-trong-4-tuan">https://unica.vn/lap-trinh-java-trong-4-tuan</a>                             |
| 10                                      | Full Kotlin Programming                   | <a href="https://unica.vn/lap-trinh-android-toan-tap-voi-kotlin">https://unica.vn/lap-trinh-android-toan-tap-voi-kotlin</a>         |
| 11                                      | Programming Restful Webservice in 6 weeks | <a href="https://unica.vn/lap-trinh-restful-webservice-trong-6-tuan">https://unica.vn/lap-trinh-restful-webservice-trong-6-tuan</a> |
| 12                                      | Full LINQ Programming                     | <a href="https://unica.vn/lap-trinh-linq-toan-tap">https://unica.vn/lap-trinh-linq-toan-tap</a>                                     |
| 13                                      | Full Android Programming                  | <a href="https://unica.vn/lap-trinh-android-toan-tap">https://unica.vn/lap-trinh-android-toan-tap</a>                               |
| 14                                      | WinForm Programming with C: 10 Apps       | <a href="https://unica.vn/lap-trinh-winform-voi-c-10-ung-dung">https://unica.vn/lap-trinh-winform-voi-c-10-ung-dung</a>             |
| 15                                      | Mastering Excel Through Exam Solutions    | <a href="https://unica.vn/thanh-thao-excel-qua-giai-de-thi">https://unica.vn/thanh-thao-excel-qua-giai-de-thi</a>                   |

#### PERSONALITY

I am a kind person, living in harmony with people and colleagues. I always try to work hard and always try to find effective working methods that increase work efficiency. Always share knowledge as well as help others. Dedicated to the assigned work.