Hoang Duy **Trinh – CV**

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i Born on 27th February 1991, Padua, Italy

Summary of Qualifications

PhD candidate in Network Engineering at Polytechnic University of Catalunya, Barcelona, Spain. M.Sc and B.Sc. in Telecommunication Engineering at University of Padua, Italy. In 2016, I was awarded with Marie Skłodowska-Curie Action (MSCA) Fellowship in the European Horizon 2020. Starting from 2016, I'm a Research Assistant in the Communication Network Division at CTTC, Barcelona. Deep Learning enthusiast. Team player and able to work in multi-cultural environments thanks to years of working and studying abroad.

Education

Sep '16 – Present – Expected March '20
PhD Student, Telecommunication Engineering
Polytechnic University of Catalonia, Barcelona, Spain
*- Machine **Learning** applied to 5G Mobile Networks*

Sep '17 – Feb '18
Visiting Academic, Dept. of Electrical and Computer Engineering
University of Maryland, College Park, US

Oct '13 – Oct '15
Master's degree in Telecommunication Engineering
University of Padua, Italy (Final Degree: 110 over 110)

Oct '10 – Jul '13
Bachelor's degree in Information Engineering
University of Padua, Italy

Work Experience

Sep '16 – Present
Research Assistant, CTTC, Barcelona, Spain
Main responsibilities:
- Research Assistant in the Communication Networks Division of CTTC
- Marie Skłodowska-Curie Fellow in the EU H2020 MSCA SCAVENGE
- Dissemination of research activities and results at conference, talks and poster sessions

Oct '15 – Sep '16
IT Consultant, SideUp Reply, Milan, Italy
Main responsibilities:
- AWS Saas Warehouse Management for online e-commerce (e.g. Costco, Alibaba's Tmall)
- ESB Integration for Logistics Process
- Dev Tools: Amazon AWS, Oracle Database, MuleSoft, Apache Mule

Publications

Classification of Mobile Services and Apps through Physical Channel Fingerprinting: a Deep Learning Approach
HD. Trinh, AF. Gambin, L. Giupponi, M. Rossi, P. Dini *IEEE Transactions on Mobile Computing (under review)*

Detecting Mobile Traffic Anomalies through Physical Control Channel Fingerprinting: a Deep Semi-supervised Approach
HD. Trinh, E. Zeydan, L. Giupponi, P. Dini, *IEEE Access 2019*

Urban Anomaly Detection by Processing Mobile Traffic Traces with LSTM Neural Networks
HD. Trinh, L. Giupponi, P. Dini, *CyberEdge: Edge Computing for Cyber Physical System Workshop, 2019 IEEE International Conference on Sensing, Communication and Networking SECON, Boston, USA*

Unveiling Radio Resource Utilization Dynamics of Mobile Traffic through Unsupervised Learning
A. Rago, G. Piro, HD. Trinh, G. Boggia, P. Dini, *2019 TMA: Network Traffic Measurement and Analysis Conference, Paris, France*

Mobile Traffic Prediction from Raw Data Using LSTM Networks
HD. Trinh, L. Giupponi, P. Dini *2018 IEEE 29th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Bologna, Italy*

Analysis and Modeling of Mobile Traffic Using Real Traces
HD. Trinh, N. Bui, J. Widmer, L. Giupponi, P. Dini *2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC), Montreal, Canada*

Skills

> *Machine Learning:*
- Time-series Modeling
- Anomaly Detection
> *Wireless Communication:*
- *Mobile Networks*: LTE, 5G, SDN
> *Programming Languages:*
- *Advanced*: **Python, MATLAB, PL/SQL**
- *Intermediate*: **R, C++, scala**
> Python
- *Math and Visualization:* **numpy, pandas, matplotlib, seaborn, plotly**
- *ML and Statistics*: **sklearn, keras, tensorflow, pytorch, xgboost**
> *Others:*
- *DB*: **Oracle, MySQL, MongoDB**
- *other*: **git, Anypoint MuleSoft, Apache Mule, Spark**

Certified Courses

> Udacity:
- Machine Learning Engineer Nanodegree
- PyTorch Scholarship Challenge from Facebook
> Coursera:
- Deeplearning.ai Specialization (5 courses)
- How Google does Machine Learning

Languages

> Italian - Mother Tongue
> English - Work Proficiency
> Spanish - Work Proficiency
> Vietnamese - Basic Proficiency