

Tran-Thanh Ngo

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📁 thanh-ngo.github.io

30 years old, French-Vietnamese citizenship



Education

- 2012–2015 PhD Degree in Image Processing**, *ICube Lab, University of Strasbourg*, Strasbourg, France.
- Thesis title: “Shadow/Vegetation and Building Detection from single optical remote sensing image”.
 - Supervisor: Christophe Collet, Professor and Vincent Mazet, Associate Professor, Télécom Physique Strasbourg.
- 2011–2012 Master Degree**, *IMT Atlantique (ex-Télécom Bretagne)*, Brest, France.
- Speciality: Signal, Image, Embedded Systems and Automatics - option Image (SISEA-I).
 - Grade: excellent (17.31/20).
- 2010–2012 Engineering Degree**, *IMT Atlantique (ex-Télécom Bretagne)*, Brest, France.
- 2006–2010 Engineering Student**, *HoChiMinh City University of Technology*, Vietnam.
- Training program for engineers of excellence in Vietnam.

Professional Experience

- Jan. 2016–
Now **Image Processing/Machine Learning R&D Engineer**, *CEA Cadarache*, France.
- Working program: conception and development of a software platform for the exploitation of infrared thermography in nuclear fusion devices (WEST tokamak and W7-X stellarator).
 - Specific tasks: algorithm design (deep learning technique with Python and Tensorflow library) and programming (in C++ with OpenCV library) for thermal event detection and tracking, development of the visual GUI application of the system (with Qt library).
- Oct. 2012–
Sept. 2015 **Image Processing R&D Engineer**, *ICube Lab, Group Models Image Vision*, Strasbourg, France.
- Topic 1: shadow detection, vegetation detection from VHR optical imagery
 - Topic 2: building detection from VHR aerial imagery using shadow and image segmentation
 - Research skill developed: statistical analysis, Markov model, Bayesian inference, Dempster-Shafer evidence theory, pattern recognition, graph cuts, technical paper writing.
- Oct. 2012–
Sept. 2015 **Teaching Assistant**, *Télécom Physique Strasbourg*, France.
- Image processing with Matlab programming
 - Signal Processing
 - Numerical Analysis and C programming
 - Statistics
- Apr.–Sept.
2012 **Signal Processing Engineer Intern**, *Ifremer, Brest and CLS, Toulouse*, France.
- Topic: analysis of individual migration movements of the European sea bass by data mining with electronic tagging
 - Research skills developed: statistical analysis, Markov model.
- Nov. 2011–
Mar. 2012 **Image Processing Research Intern**, *Télécom Bretagne*, Brest, France.
- Topic: analysis and modeling of multimodal distribution of visual signature key-points (SIFT, SURF) for Image Recognition.
 - Research skills developed: statistical analysis, marked point process, feature detection.

Certificates

- Machine Learning (by Stanford University on Coursera)
- Neural Networks and Deep Learning (by deeplearning.ai on Coursera)

- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization (by deeplearning.ai on Coursera)
- Structuring Machine Learning Projects (by deeplearning.ai on Coursera)
- Convolutional Neural Networks (by deeplearning.ai on Coursera)
- Sequence Models (by deeplearning.ai on Coursera)
- End-to-End Machine Learning with TensorFlow on GCP (by Google Cloud on Coursera)

Other non-fiction books, mindfulness meditation