

Tran-Thanh Ngo

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29 years old, French-Vietnamese citizenship



Education

- 2012–2015 PhD Degree**, *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.

Professional Experience

- Jan. 2016–
Now **EUROFusion Engineering Fellow**, *CEA Cadarache/IRFM*, Saint Paul les Durance, France.
- Working program: conception and development of a software platform for the exploitation of infrared thermography and visible diagnostics in nuclear fusion devices (WEST tokamak and W7-X stellarator).
 - Specific tasks: algorithm design and programming in C++ for thermal event detection and tracking, development of the visual GUI application of the system (with Qt library).
- Oct. 2012–
Sept.
2015 **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
 - Numerical Analysis and C programming
 - Signal Processing
 - Statistics
- Apr.–Sept.
2012 **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 **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
- End-to-End Machine Learning with TensorFlow on GCP by Google Cloud on Coursera

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Computer C/C++ (Boost, OpenCV, TensorFlow, Qt), Python, Matlab, Latex.

Languages French (fluent), English (high level), Vietnamese (mother language).

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- Odon Vallet Scholarship (for the most excellent students in Vietnam), 2005 and 2006
- Second prize in National Mathematics Olympic of Vietnam (for high-school students, 2005, 2006)
- Second prize in Vietnam Mathematics Competition for University Students (2008)
- Vietnamese Government Scholarship (2010)
- EUROfusion Engineering Grant (2016-2018)

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- A. Puig Sitjes, M. Jakubowski, A. Ali, P. Drexelwot, F. Pisano, V. Moncada, **T.T. Ngo**, B. Cannas, J.M. Travers, G. Kocsis, T. Szepesi and W7-X Team, "Wendelstein 7-X Near Real-time Image Diagnostic System for Plasma Facing Components Protection", Fusion Science and Technology, Volume: 74, Issue: 1-2, 2018.
- **TT. Ngo**, Ch. Collet, V. Mazet, "Shape-based Building Detection in Visible Band Images using Shadow Information", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Volume: 10, Issue: 3, March 2017.
- Mathieu Woillez, Ronan Fablet, **Tran-Thanh Ngo**, Maxime Lalire, Pascal Lazure, Hélène de Pontual, "A HMM-based model to geolocate pelagic fish from high-resolution individual temperature and depth histories: European sea bass as a case study", Ecological Modelling, 2016-02 , Vol. 321 , P. 10-22.
- **TT. Ngo**, Ch. Collet, V. Mazet, "Détection simultanée de l'ombre et la végétation sur des images aériennes couleur en haute résolution", Traitement du Signal, Vol. 32(2-3):311-333, 2015.
- **TT. Ngo**, Ch. Collet, V. Mazet, "Automatic rectangular building detection from VHR aerial imagery using shadow and image segmentation", International Conference on Image Processing ICIP'15
- **TT. Ngo**, Ch. Collet, V. Mazet, "MRF and Dempster-Shafer theory for simultaneous shadow/vegetation detection on high resolution aerial color images", International Conference on Image Processing ICIP'14.
- **TT. Ngo**, Ch. Collet, V. Mazet, "Détection simultanée de l'ombre et la végétation sur des images aériennes couleur en haute résolution", RFIA 2014, Rouen, 2014.
- Hélène de Pontual, **Tran-Thanh Ngo**, Maxime Lalire, Pascal Lazure, François Garren, Mickaël Drogou, Mathieu Woillez, Ronan Fablet, "Understanding the spatial dynamics of European sea bass: new insights on seasonal migration patterns from electronic tagging off the coast of west Brittany", ICES Annual Science Conference 2013, Iceland.
- M. Woillez, R. Fablet, **T.T. Ngo**, M. Lalire, P. Lazure, F. Garren, H. de Pontual, "A HMM-based model to geolocate pelagic fish from high-resolution individual temperature and depth histories: European sea bass as a case study", 5th Bio-logging Scientific Symposium, BLS5, 2014, France.

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Music harmonica, guitar

Sport badminton, jogging, football

Other non-fiction books, mindfulness meditation