## **Vuong V. Trinh**

vanvuong.trinh@gmail.com
https://vuongvtrinh.github.io

EXPERIENCE	Research Scientist, Dong A University Research Institute  • Develop anomaly detection algorithms application to sensor networks and production.	nce Jul 2018	
	ware Engineer, Benjamin Muyl Design S.A.  Sep-Dec 2018 develop scientific software for design and optimization of sailing yachts via symbolic framework.  amiliar with Python, CasADi and unit-testing.  arch Engineer, Commissariat à l'Énergie Atomique et aux Énergies Alternatives 2014–2017 rvisors: M. Mazen Alamir and M. Patrick Bonnay, funded by the project ANR CryoGreen.  Develop explicit constrained control via nonlinear regression and reduced-set support vector machines, develop hierarchical control coordination via derivative-free optimization and fixed-point iterations, amiliar with Matlab, C, LaTeX and Inkscape, cryogenic processes with PLC, SCADA and Modbus.		
	Research Intern, Grenoble Images Parole Signal Automatique Laboratoire  Supervisors: M. Ioan D. Landau and M. Luc Dugard, on robust active vibration control.  • Perform system identification, robust control design and experiments using Matlab and xPo  • Laboratory instructor for the adaptive control course at EECI IGSC'14.	andau and M. Luc Dugard, on robust active vibration control. fication, robust control design and experiments using Matlab and xPC Target,	
	<ul> <li>Industrial Intern, Yazaki Haiphong Vietnam</li> <li>Analyse customer specifications, present technical solution, train operators, deliver bill-of-</li> <li>Design, set up and program PLC / HMI / inverter using AutoCAD, Step7 and WinCC.</li> </ul>	lyse customer specifications, present technical solution, train operators, deliver bill-of-materials,	
EDUCATION	M.S. Automation & Control, Université Joseph Fourier & Institut Polytechnique de Grenoble Mention: good   GPA: 15/20	e 2014	
	<b>B.S. Automation &amp; Control</b> , Hanoi University of Science and Technology Mention: good ( <i>Talented Engineer's Program</i> )   GPA: 3.17/4.00	2012	
AWARDS	Excellence Master Fellowship, LabEx PERSYVAL-Lab	2013	
	Vallet Scholarship for excellent academic performance, Rencontres du Vietnam	2008	
VALORISATION	CS50's Introduction to Computer Science Course Certification, Harvard University via edX Six Sigma and Lean Processional Program Certification, Technische Universität München via edX TUM Lean Six Sigma Yellow Belt Certification, Technische Universität München		
Languages	Vietnamese (native)   English (fluent: IELTS 6.5)   French (basic)		
SOFTWARE	Quantitative Analytics and Trading Strategies of Cryptoassets  Research: data-driven analytics of blockchain projects and quantitative trading for crypto-mark  Technology: Python (Flask, Pandas, Dash, Tkinter)   AWS (RDS, EC2)   Heroku (Postgres)	ket	

- PUBLICATIONS V. V. Trinh, M. Alamir, P. Bonnay and F. Bonne, Explicit model predictive control via nonlinear piecewise approximations, in Proceedings of the 10th IFAC Symposium in Nonlinear Control Systems, Monterey, CA, USA, 2016.
  - M. Alamir, V. V. Trinh and P. Bonnay, On the stabilization of fixed-point iterations arising in hierarchical control design, in Proceedings of the 20th IFAC World Congress, Toulouse, France, 2017.
  - M. Alamir, P. Bonnay, F. Bonne and V. V. Trinh, Fixed-point based hierarchical MPC control design for a cryogenic refrigerator, Journal of Process Control, vol. 58, no. Supplement C, pp. 117-130, 2017.
  - V. V. Trinh, K. P. Tran and A. T. Mai, Anomaly detection in wireless sensor networks via support vector data description with Mahalanobis kernels and discriminative adjustment, in Proceedings of the 2017 4th NAFOSTED Conference on Information and Computer Science, Hanoi, Vietnam, 2017.
  - V. V. Trinh, K. P. Tran and T. H. Truong, Data driven hyperparameter optimization of one-class support vector machines for anomaly detection in wireless sensor networks, in *Proceedings of the 2017* International Conference on Advanced Technologies for Communications, Quy Nhon, Vietnam, 2017.