Vuong V. Trinh

vuongtv@donga.edu.vn
https://vuongvtrinh.github.io

EXPERIENCE	Research Scientist, Dong A University Research Institute	since Jan 2019
	 Develop kernel-based anomaly detection algorithms with application to wireless sensor 	r networks.
	 Software Engineer, Benjamin Muyl Design S.A. Develop scientific software for computation and optimization of sailing yachts via symbolic framework, Familiar with Python (<i>CasADi</i>), Bash, version control and unit-testing. 	
	Research Engineer, Commissariat à l'Énergie Atomique et aux Énergies Alternatives	2014–2017
	 Supervisors: 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, Familiar with Matlab, C, LaTeX and Inkscape, cryogenic processes with PLC, SCADA and Modbus. 	
	Research Intern, Grenoble Images Parole Signal Automatique Laboratoire	Jan-May 2014
	 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 xPC Target, Laboratory instructor for the adaptive control course at EECI IGSC'14. 	
	Industrial Intern, Yazaki Haiphong Vietnam	Apr 2011
	 Analyse customer specifications, present technical solution, train operators, deliver bill Design, set up and program PLC, HMI and inverter using AutoCAD, Step7 and WinCO 	
EDUCATION	M.S. Automation & Control, Université Joseph Fourier & Institut Polytechnique de Gren Mention: good GPA: 15/20	oble 2014
	B.S. Automation & Control , 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 Münch	nen via edX
	TUM Lean Six Sigma Yellow Belt Certification, Technische Universität München	
Languages	Vietnamese (native) English (fluent: IELTS 6.5) French (basic)	
VOLUNTEER	Organization Team, Junior Scientist and Industries Annual Meeting	Mar 2016
	Community Analyst, Blockchain & Cryptoasset Quantitative Analytics Research: data-driven analytics of blockchain projects and quantitative trading for crypto-	May 2018
	Technology: Python (<i>Flask, Django, Pandas, Tkinter</i>) JS (<i>Highcharts</i>) SQL AWS Her	

- 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.