Vuong V. Trinh

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EXPERIENCE	Research Scientist, Dong A University Research Institute • Develop anomaly detection algorithms with application to wireless sensor networks.	since Jan 2019
	 Software Engineer, Benjamin Muyl Design Sarl Develop scientific software for computation and optimization of sailing yachts via symbol Familiar with Python (<i>Numpy, SciPy, CasADi</i>), SQL database, bash, version control and 	
	Research Engineer, Commissariat à l'Énergie Atomique et aux Énergies Alternatives Supervisors: M. Mazen Alamir and M. Patrick Bonnay, on cryogenic process control and o • Develop explicit constrained control via nonlinear regression and reduced-set support ve • Develop hierarchical control coordination via derivative-free optimization and fixed-poi • Familiar with Matlab (<i>CPLEX</i> , <i>NLopt</i> , <i>ACADO</i>), C/C++, PLC, SCADA and Modbus, Text	ector machines, int iterations,
	 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 Laboratory instructor for the adaptive control course at EECI IGSC'14. 	Jan–May 2014 xPC Target,
	 Industrial Intern, Yazaki 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 Engineering, Université Joseph Fourier de Grenoble Mention: good GPA: 15/20	2014
	B.S. Automation & Control Engineering , 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)	
SERVICES	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 strategies for Technology: Python (Flask, Django, Pandas) JS (Highcharts) Heroku (Postgres) AWS	• •

- 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.