Vuong V. Trinh

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https://vuongvtrinh.github.io

EXPERIENCE	 Research Scientist, Dong A University Research Institute Develop anomaly detection algorithms application to sensor networks and production. 	since Jul 2018
	 Software Engineer, Benjamin Muyl Design S.A. Develop symbolic computing software for simulation, optimization and control of sailin Familiar with Python, SQL, CasADi and unit-testing. 	Jan–Jun 2018 ng yachts,
	Research Engineer, Commissariat à l'Énergie Atomique et aux Énergies Alternatives Supervisors: M. Mazen Alamir and M. Patrick Bonnay, funded by the project ANR CryoG • Develop explicit constrained control via nonlinear regression and reduced-set support ve • Develop hierarchical control coordination via derivative-free optimization and fixed-po • Familiar with Matlab, C, LaTeX and Inkscape, cryogenic processes with PLC, SCADA	reen. 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 Haiphong Vietnam Analyse customer specifications, present technical solution, train operators, deliver bill- Design, set up and program PLC / HMI / inverter using AutoCAD, Step7 and WinCC. 	Apr 2011 -of-materials,
EDUCATION	M.S. Automation & Control , Université Joseph Fourier & Institut Polytechnique de Grend 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
	Double Prize in Physics (1st) and Maths (cons), Vietnam Mathematics & Youth Magazin	ne 2005
VALORISATION	CS50's Introduction to Computer Science Course Certification, Harvard University via Six Sigma and Lean Processional Program Certification, Technische Universität München TUM Lean Six Sigma Yellow Belt Certification, Technische Universität München	
Languages	Vietnamese (native) English (fluent: IELTS 6.5) French (basic)	
SOFTWARE	Blockchain and Cryptoasset Analytics [WebApp] [ChatBot] Research: aggregated data viz, statistical analytics and quantitative algorithmic trading for Technology: Python (Flask, Pandas, Dash) AWS (RDS, EC2) Heroku (Postgres)	crypto-market

- 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, 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.
 - 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.
 - 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.