Vuong V. Trinh

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https://vuongvtrinh.github.io

EXPERIENCE	Software Engineer, Benjamin Muyl Design Sarl	Sep-Dec 2018
	• Develop scientific software for computation and optimization of sailing yachts via symb	
	• Familiar with Python (<i>CasADi</i>), database, bash, version control and unit-testing, Githu	•
	 Research Engineer, Commissariat à l'Énergie Atomique et aux Énergies Alternatives 2014–20 Supervisors: M. Mazen Alamir and M. Patrick Bonnay, on cryogenic process control and optimization. Develop explicit constrained control via nonlinear regression and reduced-set support vector machin Develop hierarchical control coordination via derivative-free optimization and fixed-point iterations Familiar with Matlab (CPLEX, NLopt, ACADO), C/C++, PLC, SCADA and Modbus, TeX and Inksca 	
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	Research Intern, Grenoble Images Parole Signal Automatique Laboratoire Supervisors: M. Ioan D. Landau and M. Luc Dugard, on robust active vibration control.	Jan-May 2014
	 Perform system identification, robust control design and experiments using Matlab and 	l vPC Target
	 Laboratory instructor for the adaptive control course at EECI IGSC'14. 	i xi C Taiget,
	Industrial Intern, Yazaki	Apr 2011
	• Analyse customer specifications, present technical solution, train operators, deliver bill-of-materials,	
	• Design, set up and program PLC, HMI and inverter using AutoCAD, Step7 and WinCo	C.
EDUCATION	M.S. Automation & Control Engineering, Université Joseph Fourier de Grenoble	2014
	Mention: good GPA: 15/20	
	B.S. Automation & Control Engineering, Hanoi University of Science and Technology	2012
	Mention: good (Talented Engineer's Program) GPA: 3.17/4.00	
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	a edX
	Six Sigma and Lean Processional Program Certification, Technische Universität München via edX	
	TUM Lean Six Sigma Yellow Belt Certification, Technische Universität München	
	Semaine d'Étude Maths-Info Entreprises, Agence Maths Entreprises	
	Schame d Edde Maths-Into Entreprises, Agence Maths Entreprises	
LANGUAGES	Vietnamese (native) English (fluent: IELTS 6.5) French (basic)	
SERVICES	Junior Researcher, Dong A University Research Institute	since Jan 2019
	Research: anomaly detection algorithms with application to wireless sensor networks.	
	Community Analyst, Blockchain & Cryptoasset Quantitative Analytics	May 2018
	Research: data-driven analytics of blockchain projects and quantitative trading strategies for crypto-market.	
	echnology: Python (Flask, Django, Pandas), JS (Highcharts), Hugo, Heroku (Postgres), AWS (RDS).	
	Organization Team, Junior Scientist and Industries Annual Meeting	Mar 2016
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- 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.