CURRICULUM VITAE

PERSONAL INFORMATION

- Name : **Dương Đặng Xuân Thành**
- Gender : Male
- Date of birth : 12/01/1982
- Place of birth : Bình Định
- Citizenship : Việt Nam
- ID/passport number : 201441777
- Academic title : Doctor
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EDUCATION

Doctor of Applied Mathematics   **2009**
University of Science, Vietnam National University – Hochiminh

Master of Science in Computer Science   **2008**
University of Science, Vietnam National University – Hochiminh

Master of Science in Mathematics   **2007**
University of Science, Vietnam National University – Hochiminh

Bachelor of Mathematics and Computing Science degree   **2003**
University of Science, Vietnam National University – Hochiminh

PROFESSIONAL EXPERIENCE

June 2011 – now   **Research Scientist,** Faculty of Math & Computer Science, University of
Science, Vietnam National University – Hochiminh

June 2009 - now	**Affiliate Research Scientist,** John von Neumann Institute, Vietnam National University – Ho Chi Minh city
June 2004 – June 2009	**Head of Scientific Research at Information Science & Applied Mathematics Department**, Ton Duc Thang University.
Jan 2003 – June 2004	**Team leader on** projects of *Software Design and Develop* at Silicon Design Solutions Vietnam Inc.

DIPLOMAS

English		TOEFL PBT 600	
Speaking	Listening	Reading	Writing
Good	Good	Fluent	Fluent

COURSES TAUGHT

Numerical Analysis, Probability and Statistics, Optimization Theory, Finance Modeling and Econometrics.

RESEARCH INTERESTS

- **System & Control:** Robust stability, robust control of dynamical systems, Stability of functional (difference) differential equations, Analysis of positive systems, positive C_0 semi-groups, Adaptive control for linear dynamical systems and applications, Stability C_0 semi-groups.

- **Statistical Machine Learning:** Statistical machine learning merges statistics with the computational sciences---computer science, systems science and optimization. Much of the agenda in statistical machine learning is driven by applied problems in science and technology, where data streams are increasingly large-scale, dynamical and heterogeneous, and where mathematical and algorithmic creativity are required to bring statistical methodology to bear.

- **Quantitative & Computational Finance:** cross-disciplinary field which relies on computational intelligence, mathematical finance, numerical methods and computer simulations to make trading, hedging and investment decisions, as well as facilitating the risk management of those decisions.

SELECTED PUBLICATIONS

[1]   D. C. Khanh, D. D. X. Thanh, *On computing stabilizability radii of linear time invariant continuous systems,* (2010) (to appear in Electronic Transactions on Numerical Analysis).

[2]   B. T. Anh, D. C. Khanh, D. D. X. Thanh, *Eising-like formulae for structured controllability radii* (2010) (to appear in system & Control Letters).

[3]   B. T. Anh, D. C. Khanh, D. D. X. Thanh, *On stability of linear parameter-varying difference systems with nonnegative matrix coefficients*, (2010) (to appear in Vietnam J. Math.).

[4]   D. D. X. Thanh, D. N. Vu, *Principal Component Analysis with Weighted Sparsity Constraint*, Appl. Math. Inf. Sci. 4, No. 1 (2010), pp. 79-91.

[5]   B. T. Anh, N. K. Son, D. D. X. Thanh, *Stability radii of positive linear time-delay systems under fractional perturbations*, Systems & Control Letters 58 (2009), pp. 155-159.

[6]   B. T. Anh, N. K. Son, D. D. X. Thanh, *A Perron-Frobenius Theorem For Positive Polynomial Operators In Banach Lattices*, Positivity, 13 (2009), pp. 709–716.

[7]   B. T. Anh, N. K. Son, D. D. X. Thanh, *Stability radii of delay difference systems under affine parameter perturbations in infinite dimensional spaces*, Appl. Math. Comput., 202 (2008), no. 2, pp. 562-570.