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Picture

**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
* Affiliation : University of Science
* Address : 227 Nguyen Van Cu, 5th dist., Hochiminh
* Phone number : 0904917075
* E-mail : [dxthanh.duong@gmail.com](mailto:dxthanh.duong@gmail.com)
* Personal website :

### EDUCATION

|  |  |
| --- | --- |
| **Doctor of Applied Mathematics**  University of Science, Vietnam National University – Hochiminh | **2009** |
| **Master of Science in Computer Science**  University of Science, Vietnam National University – Hochiminh | **2008** |
| **Master of Science in Mathematics**  University of Science, Vietnam National University – Hochiminh | **2007** |
| **Bachelor of Mathematics and Computing Science degree**  University of Science, Vietnam National University – Hochiminh | **2003** |

### PROFESSIONAL EXPERIENCE

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| --- | --- |
| 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

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| 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](http://en.wikipedia.org/wiki/Computational_intelligence), [mathematical finance](http://en.wikipedia.org/wiki/Mathematical_finance), [numerical methods](http://en.wikipedia.org/wiki/Numerical_analysis) and [computer simulations](http://en.wikipedia.org/wiki/Computer_simulation) to make [trading](http://en.wikipedia.org/wiki/Trader_%28finance%29), [hedging](http://en.wikipedia.org/wiki/Hedge_%28finance%29) and [investment](http://en.wikipedia.org/wiki/Investment) decisions, as well as facilitating the [risk management](http://en.wikipedia.org/wiki/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.