

Nguyen The Vinh

Curriculum Vitae

Department of Mathematics

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"I like nice theorems, simple algorithms, and interesting applications" – Yura Malitsky

Personal Data

Born November 21, 1980 at Bac Ninh (Vietnam) Citizenship: Vietnam
Gender Male Marital status: married
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Education

1998–2002 **Hanoi University of Science, Vietnam National University**, *Bachelor's Degree in Mathematics*, majoring in Functional Analysis.
2002–2004 **Hanoi University of Science, Vietnam National University**, *Master's Degree in Mathematics*, working on Nonlinear Analysis under the supervision of Professor Do Hong Tan.
2005–2010 **Institute of Mathematics, Vietnam Academy of Science and Technology**, *PhD in Mathematics*. Title of PhD Thesis: *KKM theory in topological semilattices and applications* (Supervisor: Prof. Do Hong Tan).

Teaching Experience

Aug 2005 – present **Lecturer and Researcher**, Department of Mathematics, University of Transport and Communications, Hanoi, Vietnam.

Teaching interests

Calculus, Numerical Analysis, Fixed Point Theory

Areas of current Interest

- Convex Analysis and Optimization Algorithms
- Compressive Sensing (CS), Signal and Image Restoration
- Stochastic Optimization Methods for Machine Learning

Research grants

- Oct 2021 – **Member of the Research Project 101.01-2020.09, financed by Vietnam National**
Oct 2022 **Foundation for Science and Technology Development (NAFOSTED).**
Project title: Set-valued optimization with vector and set criteria and related topics. **Project Leader: Prof. Pham Huu Sach.**
- June 2012 – **Member of the Research Project 101.01-2011.52, financed by Vietnam National**
June 2014 **Foundation for Science and Technology Development (NAFOSTED).**
Project title: Set-valued Analysis and Equilibrium Problems. **Project Leader: Prof. Pham Huu Sach.**
- March 2015 – **Member of the Research Project 101.01-2014.17, financed by NAFOSTED.**
March 2017 Project title: Selected topics in the theory of multiobjective optimization problems and vector Ky Fan inequalities. **Project Leader: Prof. Pham Huu Sach.**
- March 2017 – **Member of the Research Project 101.01-2017.08, financed by NAFOSTED.**
present Project title: Set-valued optimization with vector and set criteria and related topics. **Project Leader: Prof. Pham Huu Sach.**

Publications

Articles in ISI Journals

- [1] **Nguyen The Vinh** and Aviv Gibali, *Gradient projection type algorithms for solving equilibrium problems and its applications*, Computational and Applied Mathematics, Accepted (29 December 2018, **SCIE**).
- [2] Duong Viet Thong and **Nguyen The Vinh**, *Inertial methods for fixed point problems and zero point problems of the sum of two monotone mappings*, Optimization, Accepted (13-Jan-2019, **SCIE**).
- [3] Duong Viet Thong, **Nguyen The Vinh** and Yeol Je Cho, *A strong convergence theorem for Tseng's extragradient method for solving variational inequality problems*, Optimization Letters, Accepted (08-Jan-2019, **SCIE**).
- [4] Duong Viet Thong, **Nguyen The Vinh** and Dang Van Hieu, *Accelerated hybrid and shrinking projection methods for variational inequality problems*, Optimization, 20 Jan 2019, <https://doi.org/10.1080/02331934.2019.1566825> (**SCIE**).
- [5] Pham Ky Anh, **Nguyen The Vinh** and Vu Tien Dung, *A new self-adaptive CQ algorithm with an application to the LASSO problem*, Journal of Fixed Point Theory and Applications, November 2018, 20:142 (**SCIE**).
- [6] Pham Ky Anh and **Nguyen The Vinh**, *Self-adaptive gradient projection algorithms for variational inequalities involving non Lipschitz-continuous operators*, accepted for publication in Numerical Algorithms, 2018, First Online: 06 August 2018, <https://doi.org/10.1007/s11075-018-0578-z>
- [7] Aviv Gibali, Dang Thi Mai and **Nguyen The Vinh**, *A new relaxed CQ algorithm for solving split feasibility problems in Hilbert spaces and its applications*, Journal of Industrial & Management Optimization, First Online: 21 May 2018, <http://aims sciences.org/article/doi/10.3934/jimo.2018080>
- [8] **Nguyen The Vinh**, Prasit Cholamjiak and Suthep Suantai, *A new CQ algorithm for solving split feasibility problems in Hilbert spaces*, Bulletin of the Malaysian Mathematical Sciences Society, First Online: 03 March 2018, <https://doi.org/10.1007/s40840-018-0614-0>
- [9] Gábor Kassay, Trinh Ngoc Hai and **Nguyen The Vinh**, *Coupling Popov's algorithm with subgradient extragradient method for solving equilibrium problems*, Journal of Nonlinear and Convex Analysis **19** (2018), 959-986 (**SCIE**).

- [10] **Nguyen The Vinh** and Pham Thi Hoai, Vector equilibrium problems for multifunctions in topological semilattice spaces, *Fixed Point Theory* **18** (2017), 741-754 (**SCIE**).
- [11] Trinh Ngoc Hai and **Nguyen The Vinh**, Two new splitting algorithms for equilibrium problems, *Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas (RACSAM)* **111** (2017), 1051-1069 (**SCIE**).
- [12] **Nguyen The Vinh** and Pham Thi Hoai, Some subgradient extragradient type algorithms for solving split feasibility and fixed point problems, *Mathematical Methods in the Applied Sciences* **39** (2016), 3808-3823 (**SCIE**).
- [13] **Nguyen The Vinh** and Pham Thi Hoai, New results on system of generalized quasi-Ky Fan inequalities with set-valued mappings in topological semilattice spaces, *Journal of Systems Science and Complexity* **29** (2016), 1585-1595 (**SCIE**).
- [14] Gábor Kassay, Mihaela Miholca and **Nguyen The Vinh**, Vector quasi-equilibrium problems for the sum of two multivalued mappings, *Journal of Optimization Theory and Applications* **169** (2016), 424-442 (**SCI**).
- [15] **Nguyen The Vinh** and Pham Thi Hoai, Ky Fan's inequalities for vector-valued multifunctions in topological ordered spaces, *Fixed Point Theory* **15** (2014), 253-264 (**SCIE**).
- [16] **Nguyen The Vinh**, Some further applications of KKM theorem in topological semilattices, *The Journal of Nonlinear Science and Applications* **5** (2012), 161-173 (**SCIE**).

Articles in other journals

- [1] **Nguyen The Vinh** and Pham Thi Hoai, New results on set-valued vector equilibrium problems, *PanAmerican Mathematical Journal* **25** (2015), 35 - 51 (**SCOPUS**).
- [2] **Nguyen The Vinh**, On essential components of the solution set of a generalized Ky Fan inequality, *Communications on Applied Nonlinear Analysis* **17** (2010), 89-100 (**SCOPUS**).
- [3] **Nguyen The Vinh**, Systems of generalized quasi-Ky Fan inequalities and Nash equilibrium points with set-valued maps in topological semilattices, *PanAmerican Mathematical Journal* **19** (2009), 79-92 (**SCOPUS**).
- [4] **Nguyen The Vinh**, Some generalized quasi-Ky Fan inequalities in topological ordered spaces, *Vietnam Journal of Mathematics* **36** (2008), 437-449 (**SCOPUS**).
- [5] **Nguyen The Vinh**, Matching theorems, fixed point theorems and minimax inequalities in topological ordered spaces, *Acta Mathematica Vietnamica* **30** (2005), 211-224 (**SCOPUS**).

Participation in conferences

- August 25-28, 2014 **Mini-Workshop on Equilibrium and Fixed Point Problems: Theory and Algorithms**, *VIASM, Hanoi, Vietnam*.
- February 4-7, 2015 **International Workshop on Some Selected Problems in Optimization and Control Theory**, *VIASM, Hanoi, Vietnam*.
- March 16-20, 2015 **6th International Conference on High Performance Scientific Computing**, *VIASM, Hanoi, Vietnam*.

Languages

Vietnamese **Mother Tongue**
 English **Good**