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- 📅 **Date of Birth:** 9 December, 1977.
- 📍 **Place of Birth:** District Loei, THAILAND.
- 🇹🇹 **Nationality:** Thai.

Employment History

- 2002 – Present 📍 **Mathematical Lecturer**, Department of Mathematics, Faculty of Science, Naresuan University, Phitsanulok, THAILAND.
- 2018 – Present 📍 **Full Professor** at Department of Mathematics, Faculty of Science, Naresuan University, Phitsanulok, THAILAND.

Education

- 2000 📍 **B.Sc. in Mathematics, Naresuan University**, Phitsanulok, THAILAND.
- 2002 📍 **M.Sc. in Mathematics, Chiang Mai University**, Chiang Mai, THAILAND.
- 2007 📍 **Ph.D. in Mathematics, Naresuan University**, Phitsanulok, THAILAND.

Skills

- Machine Learning 📍 Deep Learning, Optimization Algorithms, Optimality Conditions, Approximation Theory, Fixed Point Theory
- Coding 📍 Python, R, $\text{\LaTeX}$,
- Misc. 📍 Academic research, teaching, training, consultation.

Research Publications

Journal Articles

- 1 K. G. Gebremeskel, T. G. Tewelee, R. Wangkeeree, Y. A. Belay, and T. H. Meche, "A relaxed iterative method for approximating solutions of pseudomonotone hierarchical variational inequality problems in hilbert spaces," *The Journal of Analysis*, May 2026. 🔗 DOI: 10.1007/s41478-026-01096-8.
- 2 K. Prathom, **Wangkeeree, R.**, Y. Belay, and A. Hongsri, "A projection neural network with delays and optimization approaches for solving absolute value equations," *IEEE Access*, vol. 14, pp. 50 141–50 155, Mar. 2026, Open Access. Available at <https://ieeexplore.ieee.org/document/11458726>. 🔗 DOI: 10.1109/ACCESS.2026.3679347.

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- 6 **Wangkeeree, R.**, R. Wangkeeree, Y. Belay, K. Ungchittrakool, and A. Nazemi, "Neurodynamical neural network method for solving support vector machines with epigraph reformulated generalized pinball loss function," *Journal of Computational and Applied Mathematics*, p. 117 754, 2026, Available at <https://www.sciencedirect.com/science/article/pii/S0377042726003961>.  DOI: 10.1016/j.cam.2026.117754.
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- 8 P. Siying, T. Muangphara, A. Photun, S. Suppalap, T. Klinzuwan, C. Phruancharoen, S. Treeyawedkul, T. Chira-adisai, Y. Supattanawong, and **Wangkeeree, R.**, "Multi-view machine learning with an optic disc localization for glaucoma diagnosis," *Applied Sciences*, 2026, Accepted.
- 9 S. Suppalap, D. Makmuang, V. Damminsred, and **Wangkeeree, R.**, "Smooth support vector machine with rescaled generalized pinball loss for classification," *Journal of Supercomputing*, vol. 81, no. 1, p. 217, 2025, ISSN: 09208542.  DOI: 10.1007/s11227-024-06697-3.
- 10 V. Damminsred and **Wangkeeree, R.**, "Improved generalized-pinball-loss-based laplacian twin support vector machine for data classification," *Symmetry*, vol. 16, no. 10, p. 1373, 2024, ISSN: 20738994.  DOI: 10.3390/sym16101373.
- 11 R. Ngoenmeesri, S. Chindaruksa, **Wangkeeree, R.**, and C. Sirisamphanwong, "Performance evaluation of thailand's 8 mw wind farm feeder trip, energy generation, and loss using 5 mwh bess - a statistical and economic approach," *IEEE Access*, vol. 12, pp. 73 620–73 632, 2024.
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- 14 R. Wangkeeree and P. Preechasilp, "Characterizations of ϵ -approximate solutions for robust convex semidefinite programming problems," *Carpathian Journal of Mathematics*, vol. 40, no. 2, pp. 493–513, 2024.
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- 23 P. Boonman, L. Anh, and **Wangkeeree, R.**, "Levitin-polyak well-posedness by perturbations of strong vector mixed quasivariational inequality problems," *Journal of Nonlinear and Convex Analysis*, vol. 22, no. 7, pp. 1327–1352, 2021.
- 24 A. Gebrie and **Wangkeeree, R.**, "Regularized projection method of solving split system of fixed point set constraint equilibrium problems in real hilbert space," *Fixed Point Theory*, vol. 22, no. 1, pp. 169–188, 2021.
- 25 C. Khantree and **Wangkeeree, R.**, "Approximate quasi solutions of multiobjective optimization problems," *Thai Journal of Mathematics*, vol. 19, no. 1, pp. 233–249, 2021.
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Conferences and Talks

- 2005
- **Noor Iterations with Errors for Nonlipschitzian Mapping in Banach Spaces**, The Fourth International Conference on Nonlinear Analysis and Convex Analysis (NACA 2005), Okinawa Convention Center, Okinawa, Japan, June 30 - July 4, 2005 (with Prof. Somyot Plubtieng).
 - **Strong Convergence Theorems for Multi-step Noor Iterations with Errors in Banach Spaces**, International Conference on Fixed Point Theory and its Applications, Guanajuato, Mexico, July 17-23, 2005 (with Prof. Somyot Plubtieng).
- 2006
- **Viscosity Approximation Methods for Nonexpansive Nonself-Mappings in Hilbert Spaces**, The Second International Symposium on Banach and Function Spaces 2006 (IS-BFS2006), Kyushu Institute of Technology (KIT), Tobata Campus, Kitakyushu, Japan, September 13-18, 2006.
- 2007
- **Approximation of Common Fixed Points of a Countable Family of Nonexpansive Mappings in Banach Spaces**, The Fifth International Conference on Nonlinear Analysis and Convex Analysis (NACA 2007), National Tsing-Hua University, Hsinchu, Taiwan, May 31 - June 4, 2007.
 - **Viscosity Approximative Methods to Cesaro Mean Iterations for Nonexpansive Nonself-Mappings in Banach Spaces**, The 8th International Conference on Fixed Point Theory and its Applications, Chiang Mai, Thailand, July 16-22, 2007.
- 2009
- **A Hybrid Iterative Scheme for Equilibrium Problems and Fixed Point Problems of Asymptotically K -Strictly Pseudo-Contractions**, The Sixth International Conference on Nonlinear Analysis and Convex Analysis (NACA 2009), Tokyo Institute of Technology, Tokyo, Japan, March 27-31, 2009.
 - **A General Iterative Method for Variational Inequality Problems, Mixed Equilibrium Problems, and Fixed Point Problems of Strictly Pseudocontractive Mappings in Hilbert Spaces**, Function Spaces 2009, Jagiellonian University, Department of Mathematics and Computer Science, Krakow, Poland, July 6-11, 2009.
 - **A General Iterative Method for Variational Inequality Problems, Mixed Equilibrium Problems, and Fixed Point Problems of Strictly Pseudocontractive Mappings in Hilbert Spaces**, The 10th International Conference on Nonlinear Functional Analysis and Applications, Masan and Chinju, Korea, July 27-31, 2009.
 - **The System of Variational Inequalities and Fixed Point Problems for a Countable Family of Strict Pseudo-Contractions in Banach Spaces**, The 4th International Conference on Fixed Point Theory, Variational Inequality and its Approximation Algorithms, China, July 16-19, 2009.
- 2010
- **A General Iterative Method for the System of Variational Inequalities of a Countable Family of Strict Pseudo-Contractions**, The Second Asian Conference on Nonlinear Analysis and Optimization, Royal Paradise Hotel Spa, Patong Beach, Phuket, Thailand, September 9-12, 2010.

Conferences and Talks (continued)

- 2011  **Convergence Theorems of Iterative Algorithms for Pseudocontraction Semigroups in Banach Spaces**, The 5th Conference On Fixed Point Theory And Applications (CFPTA 2011), Lampang Rajabhat University, Thailand, July 8-9, 2011.
-  **The General Hybrid Approximation Methods for Nonexpansive Mappings in Banach Spaces**, The Seventh International Conference on Nonlinear Analysis and Convex Analysis (NACA 2011), Pukyong National University (PKNU), Busan, Republic of Korea, August 2-5, 2011.
- 2012  **A Solution for the Generalized-Hemivariational Inequality Problems**, International Conference on Nonlinear Analysis and Optimization: Theory, Algorithms and Applications in Science and Engineering, Tianjin Polytechnic University and Civil Aviation University of China, Tianjin, China, August 13-15, 2012.
-  **Existence Theorem of the Ky Fan-Hemivariational Inequality Problems in Banach Spaces**, The 6th International Conference on Fixed Point Theory and Applications, Faculty of Science, Uttaradit Rajabhat University, Uttaradit, Thailand, July 31 - August 1, 2012.
-  **Existence Theorems of the Generalized Variational-Hemivariational Inequalities**, The International Conference 2012 on Mathematical Inequalities and Nonlinear Functional Analysis with Applications (MINAA 2012), Gyeongsang National University, Chinju, South Korea.
- 2013  **An Iterative Method for Generalized Mixed Vector Equilibrium Problem with a Relaxed Monotone Mapping and a Countable Family of Nonexpansive Mappings in a Hilbert Space**, Spring School: Analysis and Approximation in Optimization Under Uncertainty, Vietnam National Foundation for Science and Technology Development, University of Science and Technology, Hanoi, Vietnam, February 18-23, 2013.
-  **Hölder Calmness of Solutions to Parametric Weak Generalized Ky Fan Inequality**, The 7th Asian Conference on Fixed Point Theory and Optimization (ACFPTO 2013), Kasetsart University, Kamphaeng Saen Campus, Thailand, July 18-20, 2013.
-  **Hölder Calmness of Solutions to Parametric Weak Generalized Ky Fan Inequality**, The 8th International Conference on Nonlinear Analysis and Convex Analysis (NACA 2013), Hirosaki University, Hirosaki, Aomori, Japan, August 2-6, 2013.
- 2014  **Semi-Continuity of Parametric Generalized Lexicographic Quasiequilibrium Problems**, The Fourth Asian Conference on Nonlinear Analysis and Optimization, National Taiwan Normal University, Taipei, Taiwan, August 5-9, 2014.
-  **Hadamard Well-Posedness and Levitin-Polyak-Well-Posedness of a Generalized Equilibrium Problem in Banach Space**, The 8th Asian Conference on Fixed Point Theory and Optimization (ACFPTO 2014), Faculty of Science, Naresuan University, Thailand, July 28-30, 2014.
-  **Well-Posedness for the Bilevel New Generalized Mixed Equilibrium Problems in Banach Spaces**, The 20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, July 13-18, 2014.
- 2015  **Well-Posedness for Parametric Generalized Quasi-Variational Inclusion Problems**, The 17th British-French-German Conference on Optimization, London, United Kingdom, June 15-17, 2015.
-  **Hölder Continuity of Solution Maps of Parametric Ky Fan Inequalities in Metric Linear Spaces**, World Conference on Global Optimization 2015 (WCGO 2015), Hilton University of Florida Conference Centre, Gainesville, Florida, USA, February 22-25, 2015.
-  **Hölder Continuity of Solution Maps of Parametric Equilibrium Problems**, The 9th International Conference on Nonlinear Analysis and Convex Analysis, Rimkok Resort Hotel, Chiang Rai, Thailand, January 21-25, 2015.
- 2016  **Sequential Optimality Conditions for Infinite Fractional Programming Problem with DC Functions**, The 9th Asian Conference on Fixed Point Theory and Optimization (ACFPTO 2016), King Mongkut's University of Technology, Bangkok, Thailand, May 18-20, 2016.

Conferences and Talks (continued)

- **Hölder Continuity of Solution Maps to Parametric Primal and Dual Weak Generalized Ky Fan Inequalities**, NAO-Asia 2016, Niigata, Japan, August 1-6, 2016.
- **On Optimality Theorems for Multiobjective Convex Optimization Problems Over Feasible Sets Defined by Tangentially Convex Inequalities**, ICCOPT 2016, Tokyo, Japan, August 6-11, 2016.
- 2017 ■ **Characterizing Robust Weak Sharp Solution Sets of Uncertain Convex Optimization Problems**, International Workshop on Optimization Algorithms and Some Related Problems, Hanoi, Vietnam, December 14-16, 2017.
- 2018 ■ **Characterizations of Solution Sets of Convex Optimization Problems Without Convex Representation**, The 10th Asian Conference on Fixed Point Theory and Optimizations, The Empress Hotel, Chiang Mai, Thailand, July 16-18, 2018.
- **Characterizing Robust Weak Sharp Solution Sets of Uncertain Convex Optimizations**, The 6th Asian Conference on Nonlinear Analysis and Optimization, Okinawa Institute of Science and Technology Graduate University ANA Intercontinental Manza Beach Resort, Okinawa, Japan, November 5-9, 2018.
- 2019 ■ **Data Classification by Using Smooth Generalized Pinball Loss Functions in Support Vector Machine**, IMLIS 2019, National Dong Hwa University (NDHU), Taiwan, November 19-22, 2019.
- 2022 ■ **A new technique for Pneumonia infected patients image recognition based on combinatorial algorithm of smooth generalized pinball SVM and VAEs**, Computational and Mathematical Methods in Science and Engineering (CMMSE2022), Rota, Cádiz, Spain, July 3-7, 2022.
- 2023 ■ **Image classification using Linex Least Square Twin bounded Support Vector Machine**, International Conference on Optimization and Variational Analysis with Application 2023 (ICOVAA-2023), Hanoi, Vietnam, July 10-15, 2023.
- **Image classification using Linex Least Square Twin bounded Support Vector Machine**, IWOTAA 2023, Saigon University, Ho chi minh, Vietnam, July 17 - 18, 2023.
- 2024 ■ **Stability of solutions to multiobjective optimization and related problems**, VIASM, Hanoi, Vietnam, March 17-24, 2024 (with Prof. Lam Quoc Anh).
- **The regularized stochastic Nesterov's accelerated quasi-Newton method for nonconvex optimization**, Computational and Mathematical Methods in Science and Engineering (CMMSE2024), Rota, Cádiz, Spain, July 2-8, 2024.
- **Pattern Data Classification via Noise-insensitive Loss in Support Vector Machines (SVMs)**, International Conference on Applied Mathematics (ICAM 2024), Ton Duc Thung University, Ho chi minh, Vietnam, July 11-13, 2024.
- **The Regularized Stochastic Nesterov's Accelerated Quasi-Newton Method with Applications**, 2024 Optimization Workshop, College of Science, National Taiwan Normal University, August 18-22, 2024.
- **Pattern Data Classification via Noise-Insensitive Loss in Support Vector Machines (SVMs)**, Pukyong National University, October 13-19, 2024.
- 2025 ■ **Regularized Nesterov's Accelerated Damped BFGS Method for Stochastic Optimization**, The 12th Asian Conference on Fixed Point Theory and Optimization 2025, Duangtawan Hotel, Chiang Mai, Thailand, January 15-18, 2025.
- **Enhancing Automated Glaucoma Prediction with Multi-View Deep Learning and Image Inpainting on Retinal Fundus Images**, Joint Conferences CMMSE 2025 and HPC 2025, Hotel Barceló, Rota, Cádiz, Spain, July 7-13, 2025.
- **Deep Learning-Based Retinal Image Analysis for Glaucoma Using Multi-View Features and Vascular Inpainting**, The 14th International Conference on Pure and Applied Mathematics (ICPAM 2025), Rome, Italy, July 15-18, 2025.

Conferences and Talks (continued)

- **Support Vector Machines with Rescaled Generalized Pinball Loss for Enhanced Classification Performance**, The Asian Mathematical Conference (AMC 2025), Chiang Mai University, Chiang Mai, Thailand, August 3–7, 2025.

Miscellaneous Experience

Awards and Achievements

- 2013 ■ **Thesis Advisor Award (Good Level)** from the National Research Council of Thailand (NRCT)
- **Outstanding Researcher in Academic Research** Naresuan University
- 2014 ■ **Outstanding Personnel (Academic)** from Naresuan University
- Director of the Center of Excellence in Mathematics Research
- 2015 ■ **Outstanding Personnel and Outstanding Alumni** Faculty of Science, Naresuan University
- 2016 ■ **Outstanding Researcher in Academic Research** Naresuan University
- 2017 ■ **Mid-Career Researcher Development Grant** from the Thailand Research Fund (TRF)
- 2018 ■ **Appointed as Professor by Royal Command**
- 2021 ■ **Advanced and Basic Research Promotion Grant** from the Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B)
- 2022 ■ **Outstanding Researcher Award for Published Works** 1st FARE Project, Faculty of Science, Naresuan University

Certification

- Apr 30, 2020 ■ **Machine Learning with Python.**
- Apr 10, 2020 ■ **Deep Neural Networks with PyTorch.**
- Jun 14, 2020 ■ **Building Deep Learning Models with TensorFlow.**
- Jul 17, 2020 ■ **What is Data Science?.**
- Jul 06, 2020 ■ **AI Capstone Project with Deep Learning.**
- May 07, 2020 ■ **Introduction to Deep Learning & Neural Networks with Keras.**
- May 01, 2020 ■ **Scalable Machine Learning on Big Data using Apache Spark.**
- Apr 26, 2020 ■ **Sequence Models.**
- Apr 16, 2020 ■ **Convolutional Neural Networks.**
- **Structuring Machine Learning Projects.**
- Apr 14, 2020 ■ **Neural Networks and Deep Learning.**
- Apr 03, 2020 ■ **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization.**

References

Available on Request