

Curriculum Vitae

Mana Donganont, Ph.D.

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Education

- **Doctor of Philosophy (Ph.D.) in Applied Mathematics** – 2022
University of Waterloo, Canada
 - **Master of Science in Applied Mathematics** – 2011
Khon Kaen University, Thailand
 - **Bachelor of Science in Mathematics** – 2008
Khon Kaen University, Thailand
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Scholarships & Grants

- **2017 – 2022:** Thai Royal Government Scholarship (2015)
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Research Interests

- Dynamic systems and Stability Theory
 - Stability Analysis, Functional Equations and Fixed point Theory
 - Multi-Agent Systems & Consensus Protocols
 - Applied Probability & Mathematical Modeling
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Publications

2025

1. M. Donganont, *Leader-following finite-time scaled consensus problems in multi-agent systems*, Journal of Mathematics and Computer Science (JMCS), **38 (4)**, 464-478.
2. C. Park, S. Donganont, M. Donganont, *Achieving Edge Consensus in Hybrid Multi-Agent Systems: Scaled Dynamics and Protocol Design*, European Journal of Pure and Applied Mathematics, **18 (1)**, 5549-5549.
3. S. Donganont, U. Withayarat, M. Donganont, *Impulsive Protocols for Scaled Consensus in Edge-Dynamic Multi-Agent Systems*, European Journal of Pure and Applied Mathematics, **18 (1)**, 5755-5755.

4. K. Sasikala, D. Piridarshani, V. Govindan, M. Donganont, S. Donganont, *Application of Laplace Transform Method to Solve Neutral-Type Delay Differential Equation*, Contemporary Mathematics, **85-97**.
5. M. Donganont, AH Ansari, S. Maksimovic, Z Mitrovic, *The Results on the Existence of Fixed Points in Hilbert Spaces via Functions of Class C*, Sahand Communications in Mathematical Analysis, **22 (1), 149-161**.
6. M. Donganont, *Scaled consensus of hybrid multi-agent systems via impulsive protocols*, Journal of Mathematics and Computer Science (JMCS), **38 (3), 275-289**.

2024

7. S. Bowmiya, G. Balasubramanian, V. Govindan, M. Donganont, H. Byeon, *Generalized linear differential equation using Hyers-Ulam stability approach*, European Journal of Pure and Applied Mathematics, **17 (4), 3415-3435**.
8. S.S. Saravanazari, V. Govindan, M. Donganont, B. Said, *Integrating Neutrosophic Logic with Bi-directional LSTM Model for Predicting Stock Market Movements*, International Journal of Neutrosophic Science, **8, 44-92**.
9. M.D. S. Khan, C.H. Park, *The stability of bi-derivations and bihomomorphisms in Banach algebras*, Journal of Mathematics and Computer Science (JMCS), **35 (4), 482-491**.
10. GHK W-G. Park, M. Donganont, *On the superstability of the p-power-radical sine functional equation related to Pexider type*, Journal of Mathematics and Computer Science (JMCS), **34 (1), 52-64**.
11. M. Donganont, *Leader-following finite-time scaled consensus problems in multi-agent systems*, Journal of Mathematics and Computer Science (JMCS), **38 (4), 464-478**.
12. K. Sasikala, D. Piridarshani, V. Govindan, M. Donganont, S. Donganont, *Application of Laplace Transform Method to Solve Neutral-Type Delay Differential Equation*, Contemporary Mathematics, **85-97**.
13. Y. Sayyari, M. Donganont, M. Dehghanian, MA Jahanshahi, *Strongly convex functions and extensions of related inequalities with applications to entropy*, AIMS Mathematics, **9 (5), 10097-11006**.

2023

14. N. Rehman, A. Ali, P. Liu, C. Park, M. Donganont, *Applications of λ -dominance degree-based rough sets in conflict problems*, Soft Computing, **1-24**.
15. HJ Saeed, AH Ali, B Batha, M. Donganont, C. Park, *New Predictor-Corrector Methods Based on Adomian Decomposition Technique and Quadrature Rule for Solving Nonlinear Equations*, Applied Mathematical Modelling, **118, 532-546**.

16. M. Donganont, X. Liu, *Scaled consensus problems of multi-agent systems via impulsive protocols*, Applied Mathematical Modelling, **118**, 532-546.

2022

17. M. Donganont, *Consensus Problems in Hybrid Multi-Agent Systems*, University of Waterloo.

2019

18. S. Suantai, M. Donganont, W. Chulamjiak, T., *Hybrid methods for a countable family of G -nonexpansive mapping in Hilbert spaces endowed with graphs*, Mathematics, **7 (10)**, 936.

2016 and Earlier

19. M. Donganont, N. Chintawechart, *A note on M_5 -Edge Colorings of Complete Graphs*, Global Journal of Pure and Applied Mathematics, **13 (6)**, 2541-2554.

20. M. Donganont, *A non-uniform Bound on Poisson Approximation by using Stein-Chen's method and w -Functions*, Journal of Applied Probability and Statistics, **12 (1)**, 11-20.

21. M. Donganont, *The bound on Poisson approximation for the number of edges in a random intersection graph on the surface of a sphere*, Far East Journal of Mathematical Science (FJMS), **99 (10)**, 1505-1512.

Languages

- Thai
- English