

Dung Trinh Manh Tran

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Employment History

- 09/2020 – 05/2021 📖 **Visiting Lecturer**, Nguyen Tat Thanh University, Vietnam.
- 01/2019 – 06/2025 📖 **Visiting Lecturer**, University of Science, Vietnam National University Ho Chi Minh City, Vietnam.
- 01/2022 – 08/2025 📖 **Visiting Lecturer**, Posts and Telecommunications Institute of Technology, Vietnam.
- 09/2022 – 08/2025 📖 **Lecturer**, FPT University, Ho Chi Minh City, Vietnam.

Education

- 2012 – 2017 📖 **B.Sc. Mathematics (Specialization: Mechanics)**, University of Science, VNU-HCM.
- 2017 – 2019 📖 **M.Sc. Mathematics (Specialization: Analysis)**, University of Science, VNU-HCM.

Thesis

- B.Sc. Mathematics** 📖 **Title:** *Simulation of Fluid Flow in a 2D Water Pipe by Finite Volume Method.*
Supervisors: Dr. VU DO HUY CUONG, VNUHCM - University of Science, Vietnam.
- M.Sc. Mathematics** 📖 **Title:** *The Dirichlet problem for the nonlinear Carrier equation contains the viscosity elastic term with a non-local source.*
Supervisors: Dr. NGUYEN MINH TRIET, University of Architecture Ho Chi Minh City and Dr. NGUYEN HUU NHAN, Dong Nai University, Vietnam.

Research Publications

Journal Articles

- 1 N. V. Dzung and **T. T. M. Dung**, "On the robin-dirichlet problem for a nonlinear wave equation with the term $\frac{1}{n} \sum_{i=1}^n u^2 \left(\frac{i-1}{n}, t \right)$," *Thu Dau Mot University Journal of Science*, vol. 5, pp. 95–105, 2023, ISSN: 2615 – 9635. 🔗 URL: <https://doi.org/10.37550/tdmu.EJS/2023.05.422>.
- 2 N. H. Nhan, **T. T. M. Dung**, L. T. M. Thanh, L. T. P. Ngoc, and N. T. Long, "A high-order iterative scheme for a nonlinear pseudoparabolic equation and numerical results," *Mathematical Problems in Engineering*, vol. 2021, 2021, ISSN: 1024 – 123X. 🔗 URL: <https://doi.org/10.1155/2021/8886184>.

- 3 D. T. N. Quynh, B. D. N. Nam, L. T. M. Thanh, **T. T. M. Dung**, and N. H. Nhan, “High-order iterative scheme for a viscoelastic wave equation and numerical results,” *Mathematical Problems in Engineering*, vol. 2021, 2021, ISSN: 1024 – 123X.  URL: <https://doi.org/10.1155/2021/9917271>.
- 4 L. T. M. Thanh, **T. T. M. Dung**, N. H. Nhan, L. T. P. Ngoc, and N. T. Long, “Numerical results for a fourth-order nonlinear wave equation of kirchhoff type with a viscoelastic term,” *Numerical Methods for Partial Differential Equations*, vol. 38, pp. 1319–1344, 2021, ISSN: 0749 – 159X.  URL: <https://doi.org/10.1002/num.22837>.

Conference Proceedings

- 1 **T. T. M. Dung**, L. T. M. Thanh, and N. H. Nhan, “Existence, continuous dependence of solutions, and numerical results to the non-homogeneous dirichlet problem for carrier-type pseudoparabolic equation with viscoelastic term,” in *The 10th National Congress of Mathematics - 2023 University of Education - University of Danang*, Da Nang, Vietnam, 2023.
- 2 **T. T. M. Dung** and L. T. M. Thanh, “On a nonhomogeneous dirichlet boundary problem for carrier-type pseudoparabolic equation with a viscoelastic term,” in *4th Central and Central Highlands Mathematics Conference*, Hue, Vietnam, 2022.
- 3 P. N. N. Khanh, L. T. M. Thanh, **T. T. M. Dung**, and N. H. Nhan, “Numerical results via high-order iterative scheme to a nonlinear wave equation with source containing two unknown boundary values,” in *Nature of Computation and Communication (ICTCC 2021)*, Springer International Publishing, 2021, pp. 209–224.  URL: https://doi.org/10.1007/978-3-030-92942-8_17.
- 4 L. T. M. Thanh, **T. T. M. Dung**, and N. H. Nhan, “Numerical solution of robin-dirichlet problem for a nonlinear wave equation with memory term,” in *Nature of Computation and Communication (ICTCC 2021)*, Springer International Publishing, 2021, pp. 178–191.  URL: https://doi.org/10.1007/978-3-030-92942-8_15.
- 5 **T. T. M. Dung** and L. T. M. Thanh, “Numerical results for a high-order iterative scheme of the robin-dirichlet problem for nonlinear pseudoparabolic equation,” in *the 12th Scientific Conference of University of Science, Viet Nam National University Ho Chi Minh City*, Ho Chi Minh City, Vietnam, 2020.

Skills

Languages	 Basic communication for English. Capable of self-study and research with English documents and scientific papers.
Coding	 C, C++, Python, MATLAB.
Misc.	 Academic research, teaching, $\text{\LaTeX}$ typesetting and publishing.

Research Interests

-  Computational Mechanics, AI-driven Mechanics.
-  Numerical Analysis, Finite Element Method.
-  Deep Learning, Machine Learning and Optimization.