

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập - Tự do - Hạnh phúc

LÝ LỊCH KHOA HỌC

(Dành cho ứng viên/thành viên các Hội đồng Giáo sư)



1. Thông tin chung

- Họ và tên: Đinh Nho Hào
- Năm sinh: 1961
- Giới tính: Nam
- Trình độ đào tạo (TS, TSKH): TS (1991, ĐH Tự do Berlin); TSKH (1996, ĐH Siegen, CHLB Đức)
- Chức danh Giáo sư hoặc Phó giáo sư: GS 2009, Bộ trưởng Bộ GDĐT bổ nhiệm.

- Ngành, chuyên ngành khoa học: Toán học (Phương trình vi phân, Giải tích, Giải tích số, Toán ứng dụng)

- Chức vụ và đơn vị công tác hiện tại: Chủ tịch Hội đồng Khoa học, Viện Toán học, VHL KH&CN Việt Nam, Phó Tổng biên tập phụ trách Tạp chí Acta Mathematica Vietnamica, Chủ tịch Hội đồng Khoa học ngành Toán Quỹ NAFOSTED.

- Chức vụ cao nhất đã qua: Trưởng phòng

- Thành viên Hội đồng Giáo sư cơ sở (nếu có) (năm tham gia, tên hội đồng, cơ sở đào tạo): 2019, Viện Toán học

- Thành viên Hội đồng Giáo sư ngành (nếu có) (năm tham gia, tên hội đồng, nhiệm kỳ):

- Thành viên Hội đồng Giáo sư nhà nước (nếu có) (năm tham gia, tên hội đồng, nhiệm kỳ):

2. Thành tích hoạt động đào tạo và nghiên cứu *(thuộc chuyên ngành đang hoạt động)*

2.1. Sách chuyên khảo, giáo trình

a) Tổng số sách đã chủ biên: 02 sách chuyên khảo.

b) Danh mục sách chuyên khảo, giáo trình trong 05 năm liền kề với thời điểm được bổ nhiệm thành viên Hội đồng gần đây nhất (*tên tác giả, tên sách, nhà xuất bản, năm xuất bản, mã số ISBN, chỉ số trích dẫn*).

2.2. Các bài báo khoa học được công bố trên các tạp chí khoa học

a) Tổng số đã công bố:..... bài báo tạp chí trong nước; 104 bài báo tạp chí quốc tế.

b) Danh mục bài báo khoa học công bố trong 05 năm gần đây nhất:

Bài báo quốc tế (Đình Nho Hào và đồng tác giả):

- 1) (Nguyen Trung Thanh, Nguyen Van Duc and Nguyen Van Thang) Estimating two time-varying reaction coefficients in a water quality model from inexact initial and boundary data. *Evolution Equations and Control Theory* 14(2025), 246-274.
- 2) (Nguyen Trung Thanh, Nguyen Van Duc and Nguyen Van Thang) A coefficient identification problem for a system of advection-diffusion-reaction equations in water quality modeling. *Journal of Inverse and Ill-posed Problems* 33(2025), 31—52.
- 3) (with Le Thi Thu Giang and Nguyen Thi Ngoc Oanh) Determination of the right-hand side in elliptic equations. *Optimization* 73(2024), 1195-1227.
- 4) (with Thuy T. Le and Loc T. Nguyen) The dimensional reduction method for solving the nonlinear inverse heat conduction problem with limited boundary data. *Communications in Nonlinear Science and Numerical Simulation* 128(2024), 107679.
- 5) (with Duong Xuan Hiep and Pham Quy Muoi) Learning river quality models by l1 regularization. *IMA Journal of Applied Mathematics*. 89 (2024), no. 1, 123–142.
- 6) (with Nguyen Van Duc and M. Shishlenin) Regularization of backward parabolic equations in Banach spaces by generalized Sobolev equations. *J. Inverse and Ill-Posed Problems* 32(2024), 9-20.
- 7) (with A. Khan and S. Reich) Convergence rates for nonlinear inverse problems of parameter identification using Bregman distances. *Journal of Nonlinear and Variational Analysis* 7(2023), 715-726.
- 8) (with Nguyen Trung Thanh, Nguyen Van Duc and Nguyen Van Thang) A coefficient identification problem for a system of advection-reaction equations in water quality modeling. *Computers and Mathematics with Applications* 148(2023), 126-150.
- 9) (with Tran Nhan Tam Quyen and Nguyen Thanh Son) Convergence Analysis of a Crank–Nicolson Galerkin Method for an Inverse Source Problem for Parabolic Equations with Boundary Observations. *Applied Mathematics and Optimization*. 84 (2021), no. 2, 2289–2325.
- 10) (with M. Alosaimi, D. Lesnic) Determination of the forcing term in hyperbolic equations. *International Journal of Computer Mathematics* 98 (2021), no. 9, 1877–1891.
- 11) (with Nguyen Van Duc and Nguyen Thi Ngoc Oanh) Stability results for weak solutions to backward one-dimensional semi-linear parabolic equations with locally Lipschitz source. *J. Inverse Ill-Posed Probl.* 29 (2021), no. 4, 499–513.
- 12) (with Nguyen Van Duc, Nguyen Trung Thanh and Nguyen Van Thang) Regularization of backward time-fractional parabolic equations by Sobolev-type equations. *J. Inverse and Ill-Posed Problems*. 28(2020), 659–676.
- 13) (with Phan Xuan Thanh, B. Bin-Mohsin, and Nguyen Huu Cong) Stable reconstruction of the initial condition in parabolic equations from boundary observations. *Computers and Mathematics with Applications* 79(2020), 3570-3587.
- 14) (with Nguyen Thuong Huyen, Peter Maass and Lucio Colombi Ciacchi) Mathematical aspects of catalyst positioning in Lithium/air batteries. *Inverse Problems* 36(2020), 044001.
- 15) (with Pham Quy Muoi and D. Lachmund) Convergence of Proximal Algorithms with Stepsize Controls for Nonlinear Inverse Problems and Application to Sparse Non-negative Matrix Factorization. *Numerical Algorithms*, 85(2020), 1255-1279.

2.3. Các nhiệm vụ khoa học và công nghệ (chương trình và đề tài tương đương cấp Bộ trở lên)

a) Tổng số chương trình, đề tài đã chủ trì/chủ nhiệm: 0 cấp Nhà nước; 03 cấp Bộ và tương đương:

1) NAFOSTED 101.02-2011.50: Xác định điều kiện ban đầu, hệ số và biên trong các quá trình khuếch tán, 2011-2013, (đã nghiệm thu),

2) NAFOSTED 101.02-2014.54, Bài toán ngược không truyền thống, 2014-2016, (đã nghiệm thu),

3) NAFOSTED 101.02-2017.318, Một số bài toán ngược cho phương trình elliptic và parabolic, 2017-2019, (đã nghiệm thu).

b) Danh mục đề tài tham gia đã được nghiệm thu trong 05 năm liền kề với thời điểm được bổ nhiệm thành viên Hội đồng gần đây nhất (*tên đề tài, mã số, thời gian thực hiện, cấp quản lý đề tài, trách nhiệm tham gia trong đề tài*):

.....

2.4. Công trình khoa học khác (nếu có)

a) Tổng số công trình khoa học khác:

- Tổng số có:..... sáng chế, giải pháp hữu ích

- Tổng số có:..... tác phẩm nghệ thuật

- Tổng số có:..... thành tích huấn luyện, thi đấu

b) Danh mục bằng độc quyền sáng chế, giải pháp hữu ích, tác phẩm nghệ thuật, thành tích huấn luyện, thi đấu trong 5 năm trở lại đây (*tên tác giả, tên công trình, số hiệu văn bằng, tên cơ quan cấp*):

.....

2.5. Hướng dẫn nghiên cứu sinh (NCS) đã có quyết định cấp bằng tiến sĩ

a) Tổng số: 11 NCS đã hướng dẫn chính/12 NCS. Danh sách:

1. F. Seiffarth, Dr. rer. nat.: Über die numerische Lösung von inversen Wärmeleitproblemen. (On the Numerical Solution of Inverse Heat Conduction Problems), 243 pages, Dr. rer. nat., University of Siegen, Germany, June 1996, Đồng hướng dẫn với H.-J. Reinhardt.
2. A. Schneider, Dr. rer. nat.: Wavelet-Based Mollification Methods for Some Ill-Posed Problems, 124 pages, Dr. rer. nat., University of Siegen, Germany, July 1996, Đồng hướng dẫn với H.-J. Reinhardt.
3. Hoang Mai Le: Inequalities for the derivatives of differentiable functions and their applications. Hanoi Institute of Mathematics, August 1999, hướng dẫn phụ.
4. Nguyen Trung Thanh: Thermal Modelling Methods for Landmine Detection. Vrije Universiteit Brussel (VUB), Belgium, September 2007, Đồng hướng dẫn với H Sahli.
5. Pham Minh Hien: Cauchy Problem for Elliptic Equations of Second Order. Hanoi Institute of Mathematics, March 2008. Hướng dẫn chính.

6. Nguyen Van Duc: Parabolic Equations Backwards in Time. Vinh University, 2011. Hướng dẫn chính.
7. Pham Quy Muoi: Sparsity Constraints and Regularization for Nonlinear Inverse Problems. Bremen University, May 2012, Đồng hướng dẫn với Peter Maass.
8. Tran Nhan Tam Quyen: Coefficient inverse problems for parabolic and elliptic equations. Hanoi Institute of Mathematics, July 2012. Hướng dẫn chính.
9. Bui Viet Huong: Identification of nonlinear heat transfer law and identification of sources in heat conduction. Thai Nguyen University 2016. Hướng dẫn chính.
10. Nguyen Thi Ngoc Oanh: Data assimilation in heat conduction. June 2017. Hướng dẫn chính.
11. NguyễnThương Huyền: Mathematical aspects of catalyst positioning in Lithium/Air Batteries. University of Bremen, CHLB Đức, 2019. (Đồng hướng dẫn với Peter Maass).
12. Lê Thị Thu Giang: Inverse Problems for elliptic equations with boundary observations. 2024. Hướng dẫn chính.

b) Danh sách NCS hướng dẫn thành công trong 05 năm liền kề với thời điểm được bổ nhiệm thành viên Hội đồng gần đây nhất:

3. Các thông tin khác

3.1. Danh mục các công trình khoa học chính trong cả quá trình (Bài báo khoa học, sách chuyên khảo, giáo trình, sáng chế, giải pháp hữu ích, tác phẩm nghệ thuật, thành tích huấn luyện, thi đấu...; khi liệt kê công trình, có thể thêm chú dẫn về phân loại tạp chí, thông tin trích dẫn...):

Sách chuyên khảo (Đinh Nho Hào và đồng tác giả)

1. (with Tran Duc Van) Differential Operators of Infinite Order with Real Arguments and Their Applications, World Scientific Publishing Co., Inc., River Edge, NJ, 1994, 240 pages.
2. Methods for Inverse Heat Conduction Problems. Peter Lang, Frankfurt/Main - Bern - New York - Paris, 1998, 249 pages.

Bài báo đăng tạp chí khoa học (Đinh Nho Hào và đồng tác giả)

106. (Nguyen Trung Thanh, Nguyen Van Duc and Nguyen Van Thang) Estimating two time-varying reaction coefficients in a water quality model from inexact initial and boundary data. *Evolution Equations and Control Theory* 14(2025), 246-274.
105. (Nguyen Trung Thanh, Nguyen Van Duc and Nguyen Van Thang) A coefficient identification problem for a system of advection-diffusion-reaction equations in water quality modeling. *Journal of Inverse and Ill-posed Problems* 33(2025), 31—52.

104. (with Le Thi Thu Giang and Nguyen Thi Ngoc Oanh) Determination of the right-hand side in elliptic equations. *Optimization* 73(2024), 1195-1227.
103. (with Thuy T. Le and Loc T. Nguyen) The dimensional reduction method for solving the nonlinear inverse heat conduction problem with limited boundary data. *Communications in Nonlinear Science and Numerical Simulation* 128(2024), 107679.
102. (with Duong Xuan Hiep and Pham Quy Muoi) Learning river quality models by l1 regularization. *IMA Journal of Applied Mathematics*. 89 (2024), no. 1, 123–142.
101. (with Nguyen Van Duc and M. Shishlenin) Regularization of backward parabolic equations in Banach spaces by generalized Sobolev equations. *J. Inverse and Ill-Posed Problems* 32(2024), 9-20.
100. (with A. Khan and S. Reich) Convergence rates for nonlinear inverse problems of parameter identification using Bregman distances. *Journal of Nonlinear and Variational Analysis* 7(2023), 715-726.
99. (with Nguyen Trung Thanh, Nguyen Van Duc and Nguyen Van Thang) A coefficient identification problem for a system of advection-reaction equations in water quality modeling. *Computers and Mathematics with Applications* 148(2023), 126-150.
98. (with Tran Nhan Tam Quyen and Nguyen Thanh Son) Convergence Analysis of a Crank–Nicolson Galerkin Method for an Inverse Source Problem for Parabolic Equations with Boundary Observations. *Applied Mathematics and Optimization*. 84 (2021), no. 2, 2289–2325.
97. (with M. Alosaimi, D. Lesnic) Determination of the forcing term in hyperbolic equations. *International Journal of Computer Mathematics* 98 (2021), no. 9, 1877–1891.
96. (with Nguyen Van Duc and Nguyen Thi Ngoc Oanh) Stability results for weak solutions to backward one-dimensional semi-linear parabolic equations with locally Lipschitz source. *J. Inverse Ill-Posed Probl.* 29 (2021), no. 4, 499–513.
95. (with Nguyen Van Duc, Nguyen Trung Thanh and Nguyen Van Thang) Regularization of backward time-fractional parabolic equations by Sobolev-type equations. *J. Inverse and Ill-Posed Problems*. 28(2020), 659–676.
94. (with Phan Xuan Thanh, B. Bin-Mohsin, and Nguyen Huu Cong) Stable reconstruction of the initial condition in parabolic equations from boundary observations. *Computers and Mathematics with Applications* 79(2020), 3570-3587.
93. (with Nguyen Thuong Huyen, Peter Maass and Lucio Colombi Ciacchi) Mathematical aspects of catalyst positioning in Lithium/air batteries. *Inverse Problems* 36(2020), 044001.
92. (with Pham Quy Muoi and D. Lachmund) Convergence of Proximal Algorithms with Step-size Controls for Nonlinear Inverse Problems and Application to Sparse Non-negative Matrix Factorization. *Numerical Algorithms*, 85(2020), 1255-1279.
91. (with Jijun Liu, Nguyen Van Duc and Nguyen Van Thang) Stability results for backward time-fractional parabolic equations. *Inverse Problems* 35(2019) 125006.
90. (with A. Khan, M. Sama, Ch. Tammer) Inverse Problems in variational inequalities by minimizing energy. *Pure and Applied Functional Analysis*. 4(2019), 247--269.
89. (with Le Thi Thu Giang, S.I. Kabanikhin, M.A. Shishlenin) A finite difference method for the very weak solution to a Cauchy problem for an elliptic equation. *J. Inverse and Ill-Posed Problems* 26(2018), 835-857.

88. (with Nguyen Van Duc and Nguyen Van Thang) Backward semi-linear parabolic equations with time-dependent coefficients and locally Lipschitz source. *Inverse Problems* 34(2018), 055010, 33 pp.
87. (with Pham Quy Muoi, SK Sahoo, D Tang, Cuong Dang, Nguyen Huu Cong) Inverse Problems with Nonnegative and Sparse Solutions: Algorithms and Application to the Phase Retrieval Problem. *Inverse Problems* 34(2018), 055007, 21 pp.
86. (with N.Y. Aksoy and G. Yagubov) Finite Difference Method for an Optimal Control Problem for a nonlinear Schro"dingler equation. *Numer. Funct. Anal. Optimiz.* 38(2017), 799-817.
85. (with Nguyen Thi Ngoc Oanh) Determination of the initial condition in parabolic equations from integral observations. *Inverse Problems in Science and Engineering. Mathematics* 309(2017), 28-43.
84. (with Bui Viet Huong, Nguyen Thi Ngoc Oanh and Phan Xuan Thanh) Determination of a term in the right-hand side of parabolic equations. *J. Comput. Appl. Math.* 309(2017), 28-43.
83. (with Nguyen Thi Ngoc Oanh) Determination of the initial condition in parabolic equations from boundary observations. *J. Inverse and Ill-Posed Problems* 24(2016), 195-220.
82. (with Pham Quy Muoi, P. Maass and M. Pidcock) Descent Gradient Methods for Nonsmooth Minimization Problems in Ill-Posed Problems. *J. Comput. Appl. Math.* 298 (2016), 105-122.
81. (with Bui Viet Huong, Phan Xuan Thanh, and D. Lesnic) Identification of nonlinear heat transfer laws from boundary observations. *Appl. Anal.* 94 (2015), 1784-1799.
80. (with Nguyen Van Duc) A non-local boundary value problem method for semi-linear parabolic equations backward in time. *Appl. Anal.* 94(2015), 446-463. (Dedicated to Professor Bernd Hofmann on the occasion of his sixtieth birthday).
79. (with Nguyen Van Duc and Nguyen Van Thang) Stability estimates for Burgers-type equations. *J. Inverse and Ill-Posed Problems.* 23(2015), 41-49.
78. (with Phan Xuan Thanh and D. Lesnic) Determination of the ambient temperature in transient heat conduction. *IMA J. Appl. Math.* 80(2015), 24-46.
77. (with Phan Xuan Thanh, D. Lesnic and M. Ivancho) Determination of a source in the heat equation from integral observations. *J. Comput. Appl. Math.* 264(2014), 82-98.
76. (with Tran Nhan Tam Quyen) Finite element methods for coefficient identification in an elliptic equation. *Appl. Anal.* 93(2014), 1533-1566.
75. (with Phan Xuan Thanh and D. Lesnic) Determination of the heat transfer coefficient in transient heat conduction. *Inverse Problems* 29(2013) 095020, 21pp.
74. (with Pham Quy Muoi, P. Maass and M. Pidcock) Semismooth Newton and quasi-Newton methods in weighted l_1 -regularization. *J. Inverse and Ill-Posed Problems,* 21(2013), 665-693.
73. (with Nguyen Van Duc) Regularization of backward parabolic equations in Banach spaces. *J. Inverse and Ill-Posed Problems.* 20(2012), 745-763.
72. (with Phan Xuan Thanh, D. Lesnic and B.T. Johansson) A boundary element method for a multi-dimensional inverse heat conduction problem. *Inter. J. Comput. Math.* 89(2012), 1540-1554.
71. (with Tran Nhan Tam Quyen) Convergence rates for Tikhonov regularization of a two-coefficient identification problem in an elliptic boundary value problem. *Numer. Math.* 120(2012), 45-77.

70. (with La Huu Chuong and D. Lesnic) Heuristic regularization methods for numerical differentiation. *Comput. Math. Appl.* 63(2012), 816--826.
69. (with Tran Nhan Tam Quyen) Convergence rates for total variation regularization of coefficient identification problems in elliptic equations II. *J. Math. Anal. Appl.* 388(2012), 593-616.
68. (with Tran Nhan Tam Quyen) Convergence rates for total variation regularization of coefficient identification problems in elliptic equations I. *Inverse Problems* 27(2011), 075008, 28pp.
67. (with Nguyen Trung Thành and H. Sahli) Thermal infrared technique for landmine detection: Mathematical formulation and methods. *Acta Mathematica Vietnamica* 36(2011), No. 2, 469-504.
66. (with Nguyen Trung Thành and H. Sahli) Detection and characterization of buried landmines using infrared thermography. *Inverse Problems in Science and Engineering* 19(2011), 281-307.
65. (with Nguyen Van Duc) Stability results for backward parabolic equations with time-dependent coefficients. *Inverse Problems* 27(2011), 025003 (20pp).
64. (with Tran Nhan Tam Quyen) Convergence rates for Tikhonov regularization of coefficient identification problems in Laplace-type equations. *Inverse Problems* 26(2010), 125014 (23pp).
63. (with T. Johansson, D. Lesnic, and Pham Minh Hien) A variational method for a Cauchy problem for elliptic equations. *Journal of Algorithms and Computational Technology* 4(2010), 89-119.
62. (with Nguyen Van Duc and D. Lesnic) Regularization of parabolic equations backwards in time by a non-local boundary value problem method. *IMA J. Appl. Math.*, 75(2010), 291-315.
61. (with Nguyễn Trung Thành, H Sahli) A splitting-based conjugate gradient for a multi-dimensional inverse heat conduction problem. *J. Comput. Appl. Math.* 232(2009), 361-377.
60. (with M. Alrefaya, H.Sahli, I. Vanhamel) A nonlinear probabilistic curvature motion filter for positron emission tomography images. *Lecture Notes in Computer Science* 5567, 2009, 212-223.
59. (with Nguyen Van Duc and D. Lesnic) A non-local boundary value problem method for the Cauchy problem for elliptic equations. *Inverse Problems* 25(2009), 055002, 27pp.
58. (with Nguyen Van Duc) Stability results for the heat equation backward in time. *J. Math. Anal. Appl.* 353(2009), 627-641.
57. (with Nguyễn Trung Thành and H Sahli) Infrared thermography for landmine detection. In R. Hammoud (Editor). *Applied Perception in Thermal-Infrared Imagery*. Springer – Verlag 2008, 3-36.
56. (with Nguyễn Trung Thành and H Sahli) Infrared thermography for buried landmine detection: inverse problem setting. *IEEE Trans. Geoscience and Remote Sensing* 46(2008), 3977-4004.
55. (with Nguyễn Van Duc and H Sahli) A non-local boundary value problem method for parabolic equations backwards in time. *J. Math. Anal. Appl.* 345(2008), 805-815.
54. (with Nguyễn Trung Thành and H Sahli) Numerical solution of a multi-dimensional inverse heat conduction problem by a splitting-based conjugate gradient method. *Journal of Physics: Conference Series* 135(2008), 012049, 1-8.
53. (with Nguyễn Trung Thành and H Sahli) Estimation of piecewise constant coefficients of parabolic equations: applications to the detection of buried objects. *Inverse Problems in Science and Engineering* 16(2008), 903-925.
52. (with H.-J. Reinhardt, J. Frohne and F.-T. Suttmeier) Numerical solution of inverse heat conduction problems in two spatial dimensions. *J. Inverse and Ill-Posed Problems* 15(2007), 181-198.

51. (with Pham Minh Hien and H. Sahli) Stability results for a Cauchy problem for an elliptic equation. *Inverse Problems* 23(2007), 421-461.
50. (with Nguyễn Trung Thành and H Sahli) Finite difference methods and validity of a thermal model for landmine detection with soil property estimation. *IEEE Trans. Geoscience and Remote Sensing* 45(2007), 656-674.
49. (with Nguyễn Trung Thành and H Sahli) Numerical solution to a parabolic boundary control problem. *Advances in Deterministic and Stochastic Analysis*. World Scientific 2007, 115-129.
48. (with H.-J. Reinhardt, J. Frohne and F.-T. Suttmeier) Multidimensional inverse heat conduction calculations. *PAMM* 6(2006), 757-758.
47. (with Lixin Yang and H Sahli) Motion estimation by hybrid diffusion: Theory and implementation. *J. Inverse and Ill-Posed Problems* 14(2006), 307-330.
46. (with H. Sahli) Stable Analytic Continuation via Mollification and the Fast Fourier Transform. In *Methods of Complex and Clifford Analysis*. SAS International Publications 2006, 143-152.
45. (with Lixin Yang and H. Sahli) A Variational Approach For 3d Line Orientation Estimation From Motion. *Machine Graphics & Vision (MGV)* 14(2005), 441-453.
44. (with H. Sahli) On a Class of Severely Ill-Posed Problems. *Vietnam J. Maths* 32(2004), 143-152.
43. (with H.-J. Reinhardt) A Generalization of Beck's Method for Inverse Heat Conduction Problems. In *N. M. Chuong, L. Nirenberg, W. Tuschke (eds) Abstract and Applied Analysis*. World Scientific 2004, 287-303.
42. A Variational Method for a Domain Identification Problem for a Parabolic Equation. In *N. M. Chuong, L. Nirenberg, W. Tuschke (eds) Abstract and Applied Analysis*. World Scientific 2004, 125-138.
41. (with Pham Minh Hien) Stability Results for the Cauchy Problem for the Laplace Equation in a Strip. *Inverse Problems* 19(2003), 833-844.
40. (with H.A. Le-Thi and T. Pham-Dinh) Solving an Inverse Problem for an Elliptic Equation by D.C. Programming. *J. Global Optimization* 25(2003), 407-423.
39. (with H.A. Le-Thi and T. Pham-Dinh) On the Ill-Posedness of the Trust Region Subproblem. *J. Inverse and Ill-Posed Problems* 11(2003), No. 6, 545-577.
38. (with L. Marin and D. Lesnic) Conjugate Gradient-Boundary Element Method for the Cauchy problem in elasticity. *Quarterly J. Mech. Appl. Math.* 55(2002), 227-247.
37. (with H.A. Le-Thi and T. Pham-Dinh) Towards Tikhonov Regularization of Non-Linear Ill-Posed Problems: a DC Programming Approach. *C. R. Acad. Sci. Paris Ser. I Math.* 335(2002), 1073-1078.
36. (with H.-J. Reinhardt and A. Schneider) Numerical Solution to a Sideways Parabolic Equation. *Inter. J. Numer. Methods in Engr.* 50(2001), 1253-1267.
35. (with L. Marin and D. Lesnic) Conjugate Gradient-Boundary Element Method for a Cauchy problem in the Lamé system. In A. J. Kassab and C. A. Brebbia (eds) *Boundary Element Technology XIV*, WIT Press, Southampton, 2001, 229-238.
34. (with D. Lesnic) The Cauchy Problem for Laplace's Equation using the Conjugate Gradient Method. *IMA J. Appl. Math.* 65(2000), 199-217.
33. (with Mai Thi Thu) Stability Results for Fractional Differentiation. *Appl. Anal.* 76(2000), 249-260.

32. (with H.-J. Reinhardt and H. Han) Stability and Regularization of a Discrete Approximation to the Cauchy Problem for Laplace's Equation. *SIAM J. Numer. Math.* 36(1999), 890-905.
31. (with H.-J. Reinhardt) Gradient Methods for Inverse Heat Conduction Problems. *Inverse Problems in Engineering.* 6:3(1998), 177-211.
30. (with H.-J. Reinhardt and Y. Jarny) A Variational Method for Multi-Dimensional Inverse Heat Conduction Problems. *Matimyas Matematika*, 21(1998), 48-56.
29. (with H.-J. Reinhardt) On a Sideways Parabolic Equation. *Inverse Problems* 13(1997), 297-309.
28. A Mollification Method for a Noncharacteristic Cauchy Problem for a Parabolic Equation. *J. Math. Anal. Appl.* 199(1996), 873-909.
27. (with H.-J. Reinhardt) Recent Contributions to Linear Inverse Heat Conduction Problems. *J. Inverse and Ill-Posed Problems* 4(1996), 23-32.
26. (with H.-J. Reinhardt) A Sequential Conjugate Gradient Method for the Stable Numerical Solution to Inverse Heat Conduction Problems. *Inverse Problems in Engineering* 2(1996), 263-272.
25. (with H.-J. Reinhardt) Stable Numerical Solution to Linear Inverse Heat Conduction Problems by the Conjugate Gradient Methods. *J. Inverse and Ill-Posed Problems* 3(1995), 447-467.
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12. Regularization of a Noncharacteristic Cauchy Problem for the Heat Equation. *Math. Meth. in the Appl. Sci.* 15(1992), 537-545.

11. (with Tran Duc Van and R. Gorenflo) Towards the Cauchy Problem for the Laplace Equation. *Banach Center Publications* 27(1992), 111-128.
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9. (with R. Gorenflo) A Noncharacteristic Cauchy Problem for the Heat Equation. *Acta Appl. Math.* 24(1991), 1-27.
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7. (with Tran Duc Van, Trinh Ngoc Minh and R. Gorenflo) On the Cauchy Problems for Systems of Partial Differential Equations with a Distinguished Variable. *Numer. Funct. Anal. and Optimiz.* 12(1991), 213-236.
6. (with Tran Duc Van and R. Gorenflo) Approximating the Solution to the Cauchy Problem and the Boundary Value Problem for the Laplace Equation. In A. Vogel *et al.* (eds.) *Theory and Practice of Geophysical Data Inversion*, Vieweg & Sohn, Braunschweig/Wiesbaden, 1990, 35-48.
5. Notes on the Benjamin-Bona-Mahony Equation. *Appl. Anal.* 35(1990), 221-246.
4. Notes on a Nonlinear Dispersive Equation. *Z. angew. Math. Mech.* 70(1990), T627-T628.
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2. Approximating an Optimal Control Problem of Quantum Processes by the Finite Element Method. *Acta Math. Vietnamica* 12(1987), Nr. 2, 135-146.
1. Optimal Control of Quantum Systems. *Avtomatika i Telemekhanika* 2(1986), 14-21 (in Russian). *English Transl. "Automat. Remote Control"* 47(1986), Nr. 2, part 1, 162-168.

3.2. Giải thưởng về nghiên cứu khoa học trong và ngoài nước (nếu có):

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3.3. Các thông tin về chỉ số định danh ORCID, hồ sơ Google scholar, H-index, số lượt trích dẫn (nếu có):

Số trích dẫn: 2596 (Google Scholar)

975 (MathSciNet)

Chỉ số h index (nếu có): 29 (Google Scholars)

17 (MathSciNet)

3.4. Ngoại ngữ

- Ngoại ngữ thành thạo phục vụ công tác chuyên môn: Nga, Anh, Đức

- Mức độ giao tiếp bằng tiếng Anh: Tốt

3.5. Thành viên ban biên tập 8 tạp chí Toán học:

- 1) *Acta Mathematica Vietnamica* (ESCI, Scopus) (2002- 2006) thành viên BBT,
 Từ 2007: Phó Tổng biên tập
 Từ tháng 5/2022: Phó Tổng biên tập phụ trách

- 2) Applied Numerical Mathematics (ISI, Scopus), từ năm 2010
- 3) Inverse Problems in Science and Engineering (ISI, Scopus), từ năm 2010-2021.
- 4) Journal of Inverse and Ill-Posed Problems (ISI, Scopus), từ năm 2011
- 5) Journal of Nonlinear Evolution Equations and Applications, từ năm 2011
- 6) Vietnam Journal of Mathematics (ESCI, Scopus), từ năm 2011
- 7) Vietnam Journal of Mathematical Applications, từ năm 2011
- 8) Applicable Analysis (ISI, Scopus), từ năm 2018.

Tôi xin cam đoan những điều khai trên là đúng sự thật, nếu sai tôi xin hoàn toàn chịu trách nhiệm trước pháp luật.

Hà Nội, ngày 10 tháng 4 năm 2025

NGƯỜI KHAI



Đinh Nho Hòa