CURRICULUM VITAE

PERSONAL DATA

Name	Dr. Nabil KERDID
Nationality	Algerian
Position	Associate Professor
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EDUCATION

Year	Academic Degree	Institution
1991-95	PhD in Numerical Analysis	Sorbonne Universités, Paris, France.
1989-90	Master in Numerical Analysis	Sorbonne Universités, Paris, France.
1983-87	Bachelor of Mathematics	University of Constantine, Algeria.

WORK EXPERIENCE

Period	Position	Address
2008-21	Associate Professor	Department of Mathematics & Statistics, College of Sciences, Imam University, Riyadh.
2001-08	Assistant Professor	Faculty of Computer Science and Information, Imam University, Riyadh.
1997-01	Assistant Professor	Superior School of Engineers in Electronics and Electrotechnics (ESIEE), Paris, France.
1995-97	Assistant Professor	Sorbonne Universités, Paris, France.

RESEARCH INTERESTS

- Computational Methods in Partial Differential Equations.
- Numerical Analysis of PDEs in Unbounded Domains.
- Asymptotic Analysis of Thin Elastic Structures.

PUBLICATIONS

1. N. Kerdid, *Asymptotic analysis of high frequency modes for thin elastic plates*, AIMS Mathematics, submitted.
2. N. Kerdid, Asymptotic analysis of stretching modes for a folded plate, *submitted*.
3. N. Kerdid, *On the linearized system of elasticity in the half-space*, AIMS Mathematics, Vol. 7, Issue 8 (2022), p.14991-15001**.** ***(IF 2.74, Q1)***.
4. E. Ngondiep, N. Kerdid, M. Abaoud, I. Aldayel, *A three-level time-split MacCormack method for two-dimensional nonlinear reaction-diffusion equations*, International Journal for Numerical Methods in Fluids. Vol. 92, Issue 12 (2020), p.1681-1706. ***(IF 3.9, Q1)***
5. N. Kerdid, *A mixed formulation of the Stokes equations with slip conditions in exterior domains and the half-space*, Hiroshima Mathematical Journal, Vol. 48, Issue 2 (2018), p.119-131**.** ***(IF 0.3, Q4)***
6. T. Z. Boulmezaoud, K. Kaliche, and N. Kerdid, *Inverted finite elements for div-curl systems in the whole space*, Advances in Comput. Maths, Vol. 43, Issue 6 (2017), p. 1469-1489. ***(IF 1.638, Q1)***
7. T. Z. Boulmezaoud, K. Kaliche, and N. Kerdid, *Explicit div-curl inequalities in bounded and unbounded domains*, Annali dell'Universita` di Ferrara, Sez. VII Sci. Mat., Vol. 63, Issue 2 (2017), p. 249-276. ***(IF 0.61, Q2)***
8. T. Z. Boulmezaoud, N. Arar, N. Kerdid, and A. Kourta, *Discretization by rational and quasi-rational functions of multi-dimensional elliptic problems in the whole space*, ESAIM: Mathematical Modelling and Numerical Analysis, Vol. 50, Issue 1 (2016), p. 263-288**.** ***(IF 2.067, Q1)***
9. T. Z. Boulmezaoud, N. Kerdid, *The spectrum of a weighted Laplacian in the half-space*, Mathematical Methods in Applied Sciences, Vol. 39, Issue 2 (2015), p. 280-288. ***(IF 1.533, Q1)***
10. N. Abada, T. Z. Boulmezaoud, and N. Kerdid, *On the Stokes flow around a rotating body*, Journal of the Japan Mathematical Society, Vol. 65, Issue 2 (2013), p. 607-632**.** ***(IF 0.707, Q1)***
11. E.Coskun, R. Ahmad, A. Ismail, N. Kerdid, M. Mohamed, F-Z. Nouri, A. Pani, *Initialization Strategy for Nonlinear Systems*, First KAUST Study Group in Mathematics for Industry Report, July 13, 2011.
12. N. Kerdid, H. Le Dret, A. Saidi, *Numerical approximation for a nonlinear membrane problem*, International Journal of Nonlinear Mechanics, Vol. 43 Issue 9 (2008), p. 908-914**.** ***(IF 2.287, Q1)***
13. N. Kerdid, P. Mato Eiroa, *Conforming finite element approximation for shells with little regularity*, Computer Methods in Applied Mechanics and Engineering, Vol. 188, Issue 1 (2000), p. 95-108. *(IF 5.019, Q1)*
14. N. Kerdid, H. Le Dret, A. Saidi, *Approximation numérique pour un problème de membrane nonlinéaire*, C. R. Mathematics, Vol. 340, Issue I (2005), 69-74. ***(IF 0.692, Q3)***
15. H. Irago, N. Kerdid, J. M. Viaño, *Asymptotic analysis of torsion and stretching vibrations in thin rods*, Quarterly of Applied Mathematics, Vol. 58, Issue 3 (2000), p. 495-510. ***(IF 1.046, Q3)***
16. N. Kerdid, P. Mato Eiroa, *Approximation par éléments finis conformes d'un modèle de coques peu régulières*, C. R. Acad. Sci., Vol. 326, Issue 11, (1998), p. 1335-1340. ***(IF 0.573, Q2)***
17. H. Irago, N. Kerdid, J. M. Viaño, *Analyse asymptotique des modes de hautes fréquences dans les poutres minces*, C. R. Acad. Sci., Vol. 326, Issue 10 (1998), p. 1255-1260. ***(IF 0.573, Q2)***
18. **N. Kerdid,** *Modeling the vibrations of a multi-rod structure*, Mathematical Modeling and Numerical Analysis, Vol. 31, Issue 7 (1997), p. 891-925. ***(IF 0.564, Q2)***
19. N. Kerdid, M. Lessoine, *Mode analysis of an aeroelastic problem*, Publications of Summer Mathematical Center for Advanced Research in Scientific Computing (C.E.M.R.A.C.S), Marseilles, 1997.
20. N. Kerdid, *Modélisation des vibrations d'une multi-structure formée de deux poutres*, C. R. Acad. Sci., Vol. 321, Issue 12 (1995), p.1641-1646. ***(IF 0.573, Q2)***
21. N. Kerdid, *Comportement asymptotique du problème de valeurs propres pour une poutre mince*, C. R. Acad. Sci., Vol. 316, Issue 7 (1993), 755-758. ***(IF 0.573, Q2)***