CURRICULUM VITAE

Professor Abdellaziz Mohamed Naceur Harrabi

Professor of Mathematics

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PROFESSIONAL ADDRESS

Mathematics Department, College of Science

of Arar, Northern Border University, .

Administrative and Academic responsibilities:

- President of Graduate Studies and Scientific Research Committee of Mathematics department 2022 -2023
- Member of Graduate Studies and Scientific Research Committee of college science 2021 -2023
- President of plans study commitee of Mathematics department 2021-2022.
  Member of Congres commitee of NBU 2019-2021.
- Senior Associate of the Mathematics Department. International Centre for Theoretical Physics. Trieste Italy (ICTP), 2017-2023
- Head Director of Higher Institute of Applied Mathematics and Computer Science. Kairouan University, 2014- 2017.
- President of the Research-Master Committee : Mathematics and Applications. . Kairouan University, 2012-2017
- Supervisor of the Mathematics Department of Preparatory Institute for Engineering Studies Monastir University, 2000-2003
- .Member of the comity of the Mediterranean Institute for the Mathematical Sciences (MIMS), 2014-2018 .
- Member of the comity of the Mathematics Society of Tunisia (SMT), 2015-2018.

EDUCATIONAL BACKGROUND:

- Habilitation to conduct researches, 2012. Kairouan University.

- PhD in Mathematics. National Engineering School of Tunis (ENIT), 2000. University of Tunis Manar.
- Master in Mathematics, 1993. University of Tunis El Manar.
- Bachelor Mathematics, 1989. University of Tunis El Manar.

Advisor of Master and Phd :Abbas Bahri, Professor at Rutgers university, USA.

Training Courses

Scientific references and their electronic indexing in scientific papers using Mendley programming.

Web of Science, its components, databases and journals with impact factor IF

Scientific research ethics.

Fundamentals of the International Classification of Refereed Scientific Journals.

Blackbored Trainning on online courses.

Trainning courses on word excell sheet.

Training courses on Artificial intelligence ChatGPT.

Webinar on Artificial intelligence, machine.

-Thesis Supervision Achieved:

- Hatem Hajlaoui 2013 (defended in December 2015).
- Foued Mtiri 2013 (defended in November 2016).
- Belgacem Rahal (defended in July 2017).
- Mohamed Karim Hamdani (defended in august 201 9).
- Cherif Zeidi 2016 (defended in august 201 9).

-Master Supervision :

- Sawsen Ghaaloul, 2012.
- Foued Mtiri, 2013.
- Marwa Selmi, Belgacem Rahal, Ousama Ouni and Mohamed Karim Hamdani, 2014.
- Cherif Zaidi and Haroun Massoudi , 2015 .

Followships and Academic Visiting:

1. March 1995. October 1996 and April 2014 Rutgers university, USA.

2. April-August 1997 Workshop on Nonlinear Analysis and its Application

to P.D.E (, 1997)., May-June 2011 visitor, July 2017 and July 2018 as senior associate I.C.T.P (Trieste, Italy)..

3. University of Paris Dauphine. December 1997. December 1998 . December 1999 . December 2000. December 2001. December 2002.

4- Elie Cartan Institute, Lorraine university. Metz, France. December 2009 4. December 2009, December 2010, September 2012, September 2013, December 2015 and December 2016.

5. September 2015 and November 2014, Mathematisches Institut, University of Giessen, Germany

6. Camille Jordan Institute, University of Claude Bernard, Lyon, France.

September 2015 and November 2016,

Main Conferences:

Congress of SMT, Mahdia, Tunisia , 2016.

Seminar of Mathematics Institute, University of Giessen, Germany, 2016.

Seminar of Mathematics Department of Rutgers university, USA, 2014 .

Seminar of Mathematics Department Galilee Institute, University of Paris 13. August 2013.

Seminar of Mathematics Department, I.C.T.P (Trieste, Italy).

Seminar of Mathematics Department, University of Paris Dauphine, 2000.

Teaching Experiences:

Position, Professor. From 2018.

Position, Associate Professor. Period : 2013-2017.

Master Courses: Critical points theory and Nonlinerar Analysis. Higher Institute of Applied Mathematics and Computer Science of Kairouan.

Position, Assistant Professor: 2008-2012.

Courses: Topology, Differential Geometry, Differential calculus, Linear Algebra. Kairouan University.

Position, Assistant Professor : 1993-2008.

Courses: Topology, Differential Geometry, Differential calculus . Monastir University.

List of books :

Cahier d'Analyse, Collection Ibn Abi'rijjel, Edition Esprit.

List of Publications :

1.Existence and nonexistence results of polyharmonic equations in the supercritical growth . Complex variables and elliptic (2022)

2.Liouville-type theorems and multiplicity result for stable at infinity solutions of high order m-polyharmonic problems Journal of Mathematics Analysis and Applications

2022 .

3. Stable solution of $-\Delta u+\l u=|u|^{p-1}u $ in strip. Acta Applicanda Math (2020)

4. A priori estimates for super-linear elliptic equation: the Neumann boundary value problem. Advances in Pure and Applied Mathematics

2020

5. Nonexistence results on space and half space of $-\Delta u+\l u=|u|^{p-1}u $ .1 via the Morse index. Com in Pure and Applied Analysis (2020).

6.Existence result for zero mass polyhoamonic system, Complex variables and elliptic (2019) https://doi.org/10.1080/17476933.2019.1679794

7.Existence and multiplicity results for a new p(x)- Kirchhoff problem , (2019) Nonlinear Analysis

8.Finite Morse index solutions of the HénonLane–Emden equation (2019) Journal of inequalities and applications https://doi.org/10.1186/s13660-019-2234-0

9. High-order Bahri-Lions Liouville-type theorems, (2019) . Annali di -

Matematica Pura ed Applicata 1923.

10.L^∞- norm estimates for weak solutions via their Morse indices for the m-laplacian problems, (2019). Results in Mathematics.

11.Explicit estimates for solutions to higher order elliptic PDEs via Morse index (2018). Manuscripta Math.

12.On the sixth-order Joseph-Lundgren exponent, (2017). Annals Henri Poincaré .

13Liouville results for m-Laplace equations in half-space and strips with mixed boundary value conditions and finite Morse index, (2017). Journal of Dynamic and Differential Equations.

14.Classification of stable solutions for non-homogeneous higher order elliptic PDEs, (2017). Journal of Inequalities and Applications.

15.Liouville theorems for stable solutions of the weighted Lane-Emden system, (2017). Discrete and continuous Dynamical Systems.

16.The Lane-Emden Equation in Strips, (2017). Proc Roy Soc Edin Sec A.

17.A classification of solutions of a Fourth Order semi-linear Elliptic

Equation in R^n, (2017). Journal.Integral.Equations.

18.Liouville type theorems for elliptic equations in half- space with mixed boundary value conditions, (2016). J. Advances in Nonlinear Analysis.

19.Morse Indices of Solutions for Super-linear Elliptic PDE's, (2015). Nonlinear Analysis.

20.A priori estimates and existence of positive solutions for higher order elliptic equations, (2017). JMAA.

21.On the Palais-Smale Condition, (2014). Journal of Functional Analysis.

22.On stable solutions of biharmonic equations with polynomial growth, (2014). Pacific Journal of Mathematics.

23.Fourth-order elliptic equations condition, (2014). Advanced nonlinear Studies.

24. L∞-bounds via the Morse index for solutions of elliptic equations with Neumann boundary conditions, (2012). Manuscripta . Math.

25.A priori estimates of Nodal Solutions on the Annulus for Some P.D.E and their Morse Index, (2011). Advances in Pure and Applied Mathematics.

26.Existence of radial solutions of some elliptic equations with prescribe number of zeros and their radial Morse index, (2011) . J.Diff.Equa.

27.L∞-bounds for solutions of super-critical elliptic problems with finite Morse index, (2010) . Advanced nonlinear Studies.

28.Solutions of super-linear elliptic equations and their Morse indices, Part II, (1998). Duke Math. Jour.

29.Solutions of super-linear elliptic equations and their Morse indices, Part I, (1998). Duke Math. Jour.

Language : Arabic, French, English