CURRICULUM VITAE

Abdelhak Hafdallah

GENERAL INFORMATION

FUNCTION	Associate Professor - Researcher Department of Mathematics and Computer Science University of Tebessa, Algeria.
Degree TEL Email	MCA (+213) 6 99 33 04 62 hafdallahmath@gmail.com, abdelhak.hafdallah@univ-tebessa.dz
Address Specialty Languages Web pages	Aqueduc 136, Tébessa, Algeria. 12000 Optimal control, Applied mathematics Arabic, English and French https://www.researchgate.net/profile/Abdelhak_Hafdallah https://abgattal.academia.edu/AbdelhakHafdallah https://www.linkedin.com/in/abdelhak-hafdallah-51766ba7
EDUCATION	
EDUCATION 2013 - 2018	University of O.E.B., Ph.D. Thesis title: Optimal control of some hyperbolic equations with missing data Advisor: Abdelhamide Ayadi, full professor.
	Thesis title: Optimal control of some hyperbolic equations with missing data

ACADEMIC EMPLOYMENT

July 2018 - Now	Associate Professor, University of Tebessa, Algeria.
November 2012 – July 2018	Assistant Professor, University of Tébessa, Algeria.
September 2011 -	High School Teacher, Haouari Boumediane Secondary school.

November 2012

HONORS AND AWARDS _____

2009 Head of Class

Awarded for being Promotional staff, by University of Tébessa.

PUBLICATIONS _____

Elhamza, B., & **Hafdallah**, A. (2023). Identification of the Potential Coefficient in the Schrödinger Equation with Incomplete Initial Conditions from a Boundary Observation. *Russian Journal of Mathematical Physics*, *30*(2), 176-183.

Elhamza, B. and **Hafdallah**, A., (2023). Identification of the bulk modulus coefficient in the acoustic equation from boundary observation: a sentinel method. *Boundary Value Problems*, 2023(1), pp.1-10. https://doi.org/10.1186/s13661-023-01708-3

Elhamza, B. and **Hafdallah**, A., (2022). Identification of the potential coefficient in the wave equation with incomplete data: a sentinel method. *Russian Mathematics*, 66(12), pp.102-111.

Laouar, C., Ayadi, A., & **Hafdallah, A.** (2022). Identification problem of a fractional thermoelastic deformation system with incomplete data: A sentinel method. *Nonlinear Studies*, *29*(2), 399-410.

Laouar, C., Ayadi, A., & **Hafdallah, A.** (2021). Optimal Control of a Partially Known Coupled System of BOD and DO. *International Journal of Analysis and Applications*, *19*(6), 984-996.

Hafdallah, A., & Abdelli, M. (2021). Averaged No-Regret Control for an Electromagnetic Wave Equation Depending upon a Parameter with Incomplete Initial Conditions. In *Electromagnetic Wave Propagation for Industry and Biomedical Applications*. IntechOpen. DOI: 10.5772/intechopen.95447

Benghazi, Z., Zeghichi, L., Djellali, A. & **Hafdallah**, A.(2020). Predictive Modeling and Multiresponse Optimization of Physical and Mechanical Properties of SCC Based on Sand's Particle Size Distribution. Arab J. Sci Eng. https://doi.org/10.1007/s13369-020-

Abdelli, M., **Hafdallah, A.**, Merghadi, F., & Louafi, M. (2020). Regional averaged controllability for hyperbolic parameter dependent systems. *Control Theory and Technology*, *18*(3), 307-314.

Hafdallah, A. (2020). On the optimal control of linear systems depending upon a parameter and with missing data. Nonlinear Studies, 27(2), 457-469.

Hafdallah, A. (2020). Optimal control for a controlled ill-posed wave equation without requiring the Slater hypothesis.Ural Mathematical Journal, 6(1 (10)).

Hafdallah, A., & Ayadi, A. (2018). Optimal control of electromagnetic wave displacement with an unknown velocity of propagation. *International Journal of Control*, https://doi.org/10.1080/00207179.2018.1458157.

Hafdallah, A., & Ayadi, A. (2018). Optimal control of a thermoelastic body with missing initial conditions. *International Journal of Control*, https://doi.org/10.1080/00207179.2018.1519258.

Hafdallah, A., Laouar, C. & Ayadi, A. (2017). No-regret optimal control characterization for an Ill-posed wave equation. *International Journal of Mathematics Trends and Technology (IJMTT)*. V41(3):283-288.

CONFERENCE PRESENTATIONS _____

TALKS

A. Hafdallah, A. Ayadi . Optimal control for wave equation with incomplete data. Talk presented at the *First International Conference on Modeling and Scientific Computing in Mathematical Engineering (MOCASIM)*, Marrakesh, Morocco from 19 to 22 November 2014 .

A. Hafdallah, A. Ayadi. About optimal control of problems with missed data. Talk presented at the *Seventh Workshop of Modelling, Analysis and Control of Systems (MACS-7),* El Jadida, Morocco 29, and 30 October 2015.

A. Hafdallah, A. Ayadi. Oum El Bouaghi, Algeria, June 1st 2016.

A. Hafdallah, On the optimal control of systems with missing data. Talk presented at the *Identification and control: some challenges*. Monastir, Tunisia. 18–20 June, 2019.

POSTERS

A. Hafdallah, A. Ayadi (2016), About optimal control of problems with missed data. Poster presented at *the International Conference of the Euro-Maghreb Laboratory of Mathematics and their Interactions (LEM2I)*, Hammamet, Tunisia, April 27 to May 1st 2016.

CITATIONS_

Total 78 h-index 6

REVIEWING _____

A REVIEWER FOR TAIWANESE JOURNAL OF MATHEMATICS DURING 2017. A REVIEWER FOR Journal of Nonlinear Evolution Equations and Applications DURING 2021 A REVIEWER FOR Journal Rendiconti del Circolo Matematico di Palermo Series 2 DURING 2021 A REVIEWER FOR Results in Control and Optimization Journal DURING 2022 A REVIEWER FOR Results in *Journal of Mathematics* DURING 202**3**

EDITING_____

Guest Editor for the Special Issue "Recent Advances on Control Theory of Uncertain Systems: Methods and Applications" in **Contemporary Mathematics ISSN: 2705-1064** DURING 2023.

https://ojs.wiserpub.com/index.php/CM/SI/Control_Theory_Uncertain_Syst

SUPERVISING _____

PHD STUDENT Bilal Elhamza THESIS TITLE Study of some identification problems by using the sentinel method YEAR OF DISSERTATION 2023 CO-SUPERVISING

Phd Student thesis title Year of dissertation 2022

PHD STUDENT Bilal Elhamza **THESIS TITLE** Study of some identification problems by using the sentinel method **YEAR OF DISSERTATION** 2021

TEACHING & ADVISING EXPERIENCE_____

January 2012	Maths 1 & Maths 2
September 2014-2016	Elliptic problems and spectral methods
September 2017- Now	Introduction to control theory of systems
2015- Now	Advising end of studies' project for Master students
October 2020- Now	Advisor of a PHD thesis.
October 2018- Now	Co-advisor of a PHD thesis.

CONFERENCE ORGANISATION COMMITTEE MEMBER _____

Scientific contribution as a member of the Scientific Committee of the IEEE

International Conference on Recent Advances in Mathematics and Informatics (ICRAMI'2021), held on September 21-22, 2021, University of Tebessa, Algeria

Workshop sur les Systèmes Dynamiques, les équations Différentielles et leurs applications, Oum El Bouaghi University, Algeria, November 14 &15, 2018.

Journée scientifique « Apport de la géophysique dans le domaine minier, cas de la méthode tomographie de résistivité électronique (TRE) « University of Tébessa, Algeria, January 23rd, 2018.