CURRICULUM VITAE

Name: ZAIDI
First name: Messaoud
Date of birth: 04/04/1971
Place of birth: Tebessa, Algeria
nationality: Algerian
Family status: married, two children
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Current position: lecturer -researcher Speciality: Mathematics

1. University itinerary :

September 2004

Postgraduate diploma in mathematics (partial differential equations), Houari

Boumediene University, Bab ezzouar, Algiers, Algeria

September 2014: Magister of the Houari Boumediene University, Bab ezzouar, Algiers, Algeria

Speciality: Analysis

Option: Dynamic Systems and Geometry

Title: Thermoelastic deformation of a thick Layer by a Heated Rigid Punch

January 2021: PhD in Sciences from Laarbi Tebessi University, Tebessa, Algeria

Speciality: Mathematics

Title: Study of global solutions of certain Reaction-Diffusion systems by functional methods **Mention** : Very honourable distinction

Language skills: Arabic, English, French, moderate, spoken, read and written.

2. Professional career

Since January 2021 Senior Lecturer Class B at Abbes Laghrour University, Khenchela, Algeria

2017 to 2020

Lecturer Class A at Abbes Laghrour University, Khenchela, Algeria

2015 to 2016

Lecturer Class B at Abbes Laghrour University, Khenchela, Algeria

3. Supervision in the Master

1. Laouadi Besma, Reaction diffusion systems and pattern formation. Abbes Laghrour University, Khenchela, 2020.

2. Bakhouche Hannane and Massas Hafidha, pattern formation in a crossdiffusion reaction systems. Abbes Laghrour University, Khenchela, 2022.

3. Bouali Chaima and Ounnas Sana, reaction diffusion systems and some applications in biology.

4. Scientific contributions

International publications

Messaoud Zaidia, Samir Bendoukhac, Salem Abdelmaleka, Global existence of solutions for an m-component cross-diffusion system with a 3-component case study, Nonlinear Analysis: Real World Applications 45 (2019) 262–284, Elsevier.

5. Research activities

In the Magister thesis

In this study, we give an analytical solution of a thermoelastic deformation problem of a thick layer. The elastic layer of thickness h deforms under the effect of it pressing by a

heated and smooth circular punch of radii **a**. The thermoelastic equilibrium differential equations of the problem are solved by the Hankel integral transforms method.

In the PhD of Science thesis

In this paper, we examine a general m-component reaction-diffusion matrix

with a full diffusion matrix and polynomially growing reaction terms through its

diagonalization. We establish the invariant regions of the system and derive

the necessary conditions for the existence of solutions. The 3×3 case is taken as a case

study, where we determine the exact conditions for the positivity of the eigen-

values, which is necessary for the diagonalization process. Numerical examples are used to

illustrate and confirm the findings of this paper.