



ZOUHIR MOKHTARI

PROFESSOR OF MATHEMATICS

Biskra University, Algeria

+213561300179

zouhir_m@yahoo.fr

SUMMARY

Eighteen years of experience with undergraduates, graduating and advanced students of all levels. Manage large (hundreds of students) courses taught in dozens of sections, with graduate student/postdoc/faculty instructors, graduate student teaching assistants, and undergraduate graders. Train, place, and mentor graduate student and postdoctorate undergraduate teaching. Teach content knowledge to area middle- and high-school teachers.

Along with mathematics and math education research, interested in new technologies in the classroom and for teaching and course management online. Extensive programming. Experienced technical writer and subject matter expert for mathematics textbooks, e-learning resources, and computer language books.

WORK EXPERIENCE

BISKRA UNIVERSITY
2000 - 2009

Lecturer of Mathematics

Taught the following courses:

- General and linear algebra.
- Mathematics for Economists.
- Lebesgue integral.
- Sequences and series of functions.
- Differential calculus on Banach space.
- Metric and Topological Spaces
- Hilbert spaces.
- Approximation theory.

BISKRA UNIVERSITY
2009 - 2012

Assistant Professor of Mathematics

Teaching and Supervising graduating students' theses and doing ordinary tasks.

BISKRA UNIVERSITY
2012 - 2017

Associate Professor of Mathematics

Teaching and supervising on both graduating and advanced students' researches

BISKRA UNIVERSITY
2017 - NOW

Professor of Mathematics

Teaching and supervising advanced students' research.

ADMINISTRATIVE RESPONSIBILITIES

- Head of the scientific Council of the Faculty of Sciences since may 2017 until today.
- Head of the department of mathematics, since 06 may 2009 until 06 may 2013.
- Assistant Head of the department of mathematics, since October 2008 until may 2009.
- Assistant Head of the department of fundamental sciences, technologies and computer sciences (SETI) since January 2005 to December 2007.

EDUCATION

BISKRA UNIVERSITY
2012 - 2012

Research Supervision Habilitation (HDR)

UNIVERSITY OF BISKRA
2006 - 2009

PHD Doctorate

Construction et Approximation numérique des Ondelettes sur l'intervalle.

Doctorate Thesis, University of Biskra, Algeria 2009.

MOSUL UNIVERSITY
1997 - 1999

M.Sc

A Theoretical Study Of Karmarkar's Algorithm.

Master of sciences Thesis, Mosul University, Iraq, 1999

UNIVERSITY OF
BATNA
1992 - 1996

DES

D.E.S Degree,

SUPERVISING

Ph.D Dissertations

- Gaussian Process for Image Classification, defended by Hassouna Houda, Biskra university 10 july 2016.
- Wavelets and Singularity Detection for Image Processing, defended by Haoues Amrane, Biskra university 10 july 2016.
- Théorie de l'Analyse Multiresolution et Decomposition d'un Signal en base d'Ondelettes, defended by SOUALHI Sara, Biskra university 23 february 2017.

MSc Theses:

- MANSOURI Alaeddine , Ondelettes et Equations Différentielles, 01-06-2014
- BARKAT Nadjib, Transformée en Ondelettes dans ZN, 02-06-2014
- ROUIBI Asma, Interpolation par Fonctions Splines, 07-06-2014
- SAIBI Khedoudj, Cryptographie, 02-06-2015
- BENBRAIKA Souad, Compression d'Image par la DCT, 03-06-2015
- MANSOURI Sarra, Transformée de Fourier Discrète, 03-06-2015
- MAZOUZI Imene, Sur Quelques Méthodes Itératives de Résolution des Equations Non Linéaires, 01-06-2016
- TELLI Abdeljalil, Sur Quelques Méthodes d'Approximation, 01-06-2016

SKILLS

LANGUAGES:



- Arabic: Mother tongue.
- French : Good.
- English : Good.

COMPUTER



Windows, Internet, MS Office, Adobe Suite, C, C++ and Java.

FUNDED RESEARCH PROJECTS AND ACADEMIC ACTIVITIES

1. Member of the National Research Project CNEPRU entitled « Approche Déterministes et Aléatoires pour l'analyse d'Image » 2009-2012
2. Responsable of the National Research Project CNEPRU entitled « Analyses Multiresolution Non Stationnaires et Application » 2013, 2014, 2015
3. Member of the National Research Project PNR entitled « Méthodes Evolutionnaire distribuées pour l'analyse d'image » 02-05-2011 au 001-05-2013
4. Member of the National Research Project CNEPRU entitled « Mathématiques pour les images et les signaux ». Code : B*0701/50/06 de 01/01/2005 completed on 31/12/2008.
5. Member of the National Research project CNEPRU entitled « Analyse variationnelle, ondelettes, et traitement de l'image numérique» Code B01420080013 Since 01/01/2009 to 31/12 /2011
6. Member of research team "ANALYSE" of the applied mathematics laboratory . University of Biskra. (Since march 2005 until today).
7. Member of the national Research project PNR entitled «Méthodes évolutionnaires distribuées pour l'analyse d'images fondamentales» code 8/u07/4971 since june 2011 until june 2013.
8. Member of the scientific committee of the mathematics department (2005-2008).
9. Member of the scientific committee of the mathematics department Since may 2009 until May 2013.
10. Member of the Scientific Council of the Faculty of Sciences since may 2009 until may 2013.
11. Head of the scientific Council of the Faculty of Sciences since may 2017 until today.

PAPERS
PUBLISHED IN
INTERNATIONAL
JOURNALS

- Novel Crypting Methods Based on Singular Values Decomposition. *Journal of Applied Computer Science & Mathematics*, Vol 10, issue 22, 15-20. (2016). With HOUAS, A. and SOUALHI, S.
- Blind Source Separation Based on Wavelet and *Spearman's Rho*. *Journal of numerical mathematics andstochastics*, Vol 8, Issue 1, 1-8, (2016). With Boussaad, A and SOUALHI, S.
- A novel binary image encryption algorithm based on diffuse representation. *Engineering Science and Technology, an International Journal (Elsevier)*. Volume 19, Issue 4, 1887-1894, (2016). With Houas, A., Melkemi, K. E., and Boussaad, A.
- Spatial contextual Gaussian process learning for remote-sensing image classification Remote sensing letters, Taylor & Francis. Volume 7, Issue 6, 519-528, (2015). DOI:10.1080/2150704X.2015.1051628, With H. Hassouna and F. Melgani.
- A New Watermarking Algorithm Based on EntropyConcept. *Acta Applicandae Mathematicae*. Springer Verlag . Volume 116, Number 1, 65-69, (2011), DOI: 10.1007/s10440-011-9629-3. With K. Melkemi.
- Wavelet bases on the Interval: A new approach. *International Journal of Mathematical Analysis*. Vol1, No. 21 1019-1030. (2007), With K. Melkemi

INTERNATIONAL
CONFERENCES

- A lossy compression Algorithm for Data basis Images Based on DCT Decomposition Congrès International Modélisation et Calcul Scientifique pour L'Ingénierie Mathématiques à MOCASIM 2014
- Novel Crypting Method based on Singular Values Decomposition International Conference on Applied Analysis and Mathematical Modeling (ICAAMM)
- Une Nouvel Approche d'Application des Ondelettes à la Compression des Images Binaires Workshop de probabilités et statistique: "à la mémoire du professeur: Said Bahlali"
- Separation des Source par les Ondelettes Workshop de Mathématiques: "à la mémoire du professeur: Said Bahlali"
- Blind-source Separation based on Wavelet Trans. and Spearman's Rho
- The Third Conference on Mathematical Sciences 27- 28 April, 2011, Zarqa University, Zarqa - Jordan. With A. Boussaad, K. Melkemi et K E. Melkemi
- Color Image Compression based on the DCT. The Third Conference on Mathematical Sciences 27- 28 April, 2011, Zarqa University, Zarqa - Jordan With A. Boucetta et K. E. Melkemi.
- A new wavelet bases on the interval Séminaire international de Mathématiques appliquées 28-30 octobre 2008 Université de Jijel With K. Melkemi.
- Un algorithme pour le tatouage de l'image. Colloque internationale RAMA6 Avril 2006 Université de M'sila With K. Melkemi.