

JABAR S. HASSAN

Department of Mathematics
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Professional Preparation

Salahaddin University, Erbil, Iraq	Mathematical Science	B.S. 07/2002
Al-Mustansiriyah University, Baghdad, Iraq	Mathematical Science	M.Sc. 06/2006
Missouri University of S&T, Rolla, USA	Applied Mathematics	M.Sc. 06/2017
Missouri University of S&T, Rolla, USA	Computational and Applied Mathematics	P.h.D. 2019

Professional Appointments

❖ Chair of Mathematics Department College of Science

Present

❖ Teaching Experience at Missouri University of S&T, USA

• College Algebra and Trigonometric Functions	Fall 2017 & Spring 2018
• Differential Equations	Summer 2018
• Calculus III	Fall 2018
• Calculus II	Spring 2019
• Calculus I	Spring 2019
• College Algebra and Trigonometric Functions	Fall 2019

❖ Teaching Experience at Salahaddin and Soran Universities , Erbil-Iraq

• Partial Differential Equations-Graduate level	Fall 2021
• Partial Differential Equations-Graduate level	Spring 2021
• Partial Differential Equations-Graduate level	Spring 2020
• Calculus I, II-Under Graduate level	Spring 2020
• Numerical Analysis, MathCad Software	2006-2007
• Linear Algebra, Numerical Analysis, and MathCad Software	2007-2008
• Finite of Mathematics, Numerical Analysis, and MatLab	2008-2009
• Numerical Analysis, MathCad Software	2009-2011

Related Publications

1. *Existence-Uniqueness of Solutions to the HIV and Cancer system in a certain type of Hilbert Space*, Jabar S. Hassan, under preparation (2022).
2. *Boundedness of differential operators on binary reproducing kernel Hilbert spaces*, Hassan, Jabar S. and David Grow, Journal of Filomat, submitted (2021).
3. *Non-Linear Integral Equations in Reproducing Kernel Hilbert Space*, Jabar S. Hassan, Journal of Differential Equations and Dynamical Systems, submitted (2021).

4. *Stability and approximation of solutions in new reproducing kernel Hilbert spaces on a semi-infinite domain*, Hassan, Jabar S. and David Grow, *Mathematical Methods in the Applied Sciences* 44 (2021), no. 17, 12442-12452 .
5. *New reproducing kernel Hilbert spaces on semi-infinite domains with existence and uniqueness results for the nonhomogeneous telegraph equation*, Hassan, Jabar S. and David Grow, *Math. Methods Appl. Sci.* 43 (2020), no. 17, 9615-9636.
6. *An approximate Method to Solve Cauchy-Type Singular Integral Equations*, Hassan, Jabar S., *J. of Pure and Applied science Special Issue*, (22-2010), pp. 32–35.
7. *Solving singular integral equations by using collocation method*, Rostam, K. Saeed and Jabar S. Hassan, *Mathematical Science Letters an International J.*, (2014).

Area of Interesting

1. Functional Analysis;
2. Differential and Integral Equations;
3. Mathematical and biological Modeling ;
4. Mathematical Physics and real quantum ;
5. Numerical Analysis.

Activities

1. Presenter of mini-symposium conference at American Mathematical Society, University of Arkansas, USA, November,3-4, 2018.
2. Presenter of the 4th Annual Meeting of SIAM Central States Section, University of Oklahoma, Norman, Oklahoma, USA, October 5-7, 2018.
3. Participated at the 1st Annual Meeting of SIAM Central States Section, Missouri S&T Campus, Rolla, Missouri, USA, April 11-12, 2015.
4. Manager of the Information Technology Unit at Salahaddin-University, College of Science, 2009-2011.
5. Assistant Head of the Department of Mathematics, College of Science, Salahaddin-University, 2008-2009.
6. Presenter at the First Iraqi-French Mathematics conference in cooperation with College of Science, Salahaddin University-Erbil, November 14-17, 2009.

Honors and Awards

1. Excellent Teaching Award by President of the Salahaddin University, Erbil - College of Science - Department of Mathematics. , 2020-2021.
2. GTA Teaching Excellence Award by the Department of Mathematics and Statistics, Missouri University of S&T, 2018-2019.

3. Full Academic Scholarship by Ministry of Higher Education in Iraqi-Kurdistan region-Erbil, 2010-2011.
4. Full Academic Scholarship by the Higher Committee for Education Development (HCED) in Iraq, 2010-2011.
5. Excellent Performance Award by Dean of the Collage of Science, University of Salahaddin-Erbil, 2011.
6. Ministry of Higher Education's Faculty Award 2010.
7. Excellent Performance Award by President of the University of Salahaddin-Erbil, 2010.