

Abdelkrim Salim

PHD IN MATHEMATICS · ASSISTANT PROFESSOR

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- **Web of Science ResearcherID:** ABG-9621-2021
- **Publons:** [HTTPS://PUBLONS.COM/RESEARCHER/4878601/ABDELKRIM-SALIM](https://PUBLONS.COM/RESEARCHER/4878601/ABDELKRIM-SALIM)
- **Scopus Author ID:** <https://www.scopus.com/authid/detail.uri?authorId=57219533287>
- **Researchgate:** <https://www.researchgate.net/profile/Abdelkrim-Salim>
- **Google Scholar:** <https://scholar.google.com/citations?hl=en&authuser=4&user=Misa12IAAAAJ>

Current Position & Affiliation

Assistant Professor

FACULTY OF TECHNOLOGY, HASSIBA BENBOUALI UNIVERSITY

Chlef, Algeria

Mar. 2022 - present

Education

Djillali Liabes University

PHD IN MATHEMATICS

Sidi Bel Abbès, Algeria

Jul. 2021

- PhD in mathematics: Mathematical analysis and applications, with thesis titled: Fractional differential equations: Analysis and stability.

Djillali Liabes University

MASTER IN MATHEMATICS AND COMPUTER SCIENCE

Sidi Bel Abbès, Algeria

Jun. 2016

- Functional analysis and differential equations specialty.

Djillali Liabes University

BACHELOR'S DEGREE IN MATHEMATICS AND COMPUTER SCIENCE

Sidi Bel Abbès, Algeria

Jun. 2014

- Bachelor's degree in mathematics and computer science, mathematics specialty.

Inal Sid Ahmed High School

BACCALAUREATE

Sidi Bel Abbès, Algeria

Jun. 2010

- Mathematics branch.

Skills

Programs MATLAB, LaTeX, Microsoft Office apps

Languages Arabic, English, French

Teaching Experience

Hassiba Benbouali University of Chlef

MATHEMATICS 1 - DEPARTMENT OF SCIENCE AND TECHNOLOGY

Chlef, Algeria

Mar. 2022 - present

Teacher of Mathematics

TEACHER OF MATHEMATICS AND COMPUTER SCIENCE

Sidi Bel Abbès, Algeria

Sep. 2016 - Mar. 2022

- In several institutions, I taught high school students various mathematics topics as well as certain computer science courses.
 - Private tutor in mathematics, computer science, and languages for various high school, undergraduate, and graduate math courses.
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Editorial Members

Fractal and Fractional - MDPI

GUEST EDITOR

2022

<https://www.mdpi.com/journal/fractalfract>

Pure and Applied Mathematics Journal

EDITORIAL MEMBER

July. 2022 - 2024

<http://www.pamjournal.org/editorialboard>

Results in Nonlinear Analysis

SECTION EDITOR

Jun. 2022 - present

<https://dergipark.org.tr/en/pub/rna/board>

Letters in Nonlinear Analysis and its Application

ASSOCIATE EDITOR

Dec. 2022 - present

<https://lettersinnonlinearanalysis.wordpress.com/journal-boards/>

Scientific Papers

33. W. Rahou, **A. Salim**, J. E. Lazreg and M. Benchohra, Existence and stability results for impulsive implicit fractional differential equations with delay and Riesz–Caputo derivative. *Mediterr. J. Math.* **20** (2023), 143. <https://doi.org/10.1007/s00009-023-02356-8>
32. **A. Salim**, F. Mesri, M. Benchohra and C. Tunç, Controllability of second order semilinear random differential equations in Fréchet spaces. *Mediterr. J. Math.* **20** (84) (2023), 1-12. <https://doi.org/10.1007/s00009-023-02299-0>
31. **A. Salim**, S. Bouriah, M. Benchohra, J. E. Lazreg and E. Karapınar, A study on k -generalized ψ -Hilfer fractional differential equations with periodic integral conditions. *Math. Methods Appl. Sci.* (2023), 1-18. <https://doi.org/10.1002/mma.9056>
30. S. Krim, **A. Salim** and M. Benchohra, On implicit Caputo tempered fractional boundary value problems with delay. *Let. Nonlinear Anal. Appl.* **1** (2023), 12-29. <https://lettersinnonlinearanalysis.wordpress.com/table-of-contents>
29. C. Derbazi, H. Hammouche, **A. Salim** and M. Benchohra, Weak solutions for fractional Langevin equations involving two fractional orders in banach spaces. *Afr. Mat.* **34** (2023), 10 pages. <https://doi.org/10.1007/s13370-022-01035-3>
28. M. Chohri, S. Bouriah, **A. Salim** and M. Benchohra, On nonlinear periodic problems with Caputo's exponential fractional derivative, *ATNA.* **7** (2023), 103-120. <https://doi.org/10.31197/atnaa.1130743>

2022

27. **A. Salim** and M. Benchohra, Existence and Uniqueness Results for Generalized Caputo Iterative Fractional Boundary Value Problems. *Fract. Differ. Calc.* **12** (2022), 197-208. <http://dx.doi.org/10.7153/fdc-2022-12-12>
26. **A. Salim**, J. Alzabut, W. Sudsutad and C. Thaiprayoon, On impulsive implicit ψ -Caputo hybrid fractional differential equations with retardation and anticipation. *Mathematics.* **10** (2022), 20 pages. <https://doi.org/10.3390/math10244821>
25. A. Bensalem, **A. Salim**, M. Benchohra and G. N'Guérékata, Functional integro-differential equations with state-dependent delay and non-instantaneous impulsions: existence and qualitative results, *Fractal Fract.* **6** (2022), 1-27. <https://doi.org/10.3390/fractalfract6100615>

24. N. Benkhetto, **A. Salim**, K. Aissani, M. Benchohra and E. Karapinar, Non-instantaneous impulsive fractional integro-differential equations with state-dependent delay, *Sahand Commun. Math. Anal.* **19** (2022), 93-109. <https://doi.org/10.22130/scma.2022.542200.1014>
23. **A. Salim**, M. Boumaaza and M. Benchohra, Random solutions for mixed fractional differential equations with retarded and advanced arguments. *J. Nonlinear Convex Anal.* **23** (2022), 1361-1375. <http://yokohamapublishers.jp/online2/opjnca/vol23/p1361.html>
22. S. Krim, **A. Salim**, S. Abbas and M. Benchohra, On implicit impulsive conformable fractional differential equations with infinite delay in b -metric spaces. *Rend. Circ. Mat. Palermo (2)*. (2022), 1-14. <https://doi.org/10.1007/s12215-022-00818-8>
21. **A. Salim**, B. Ahmad, M. Benchohra and J. E. Lazreg, Boundary Value Problem for Hybrid Generalized Hilfer Fractional Differential Equations, *Differ. Equ. Appl.* **14** (2022), 379-391. <http://dx.doi.org/10.7153/dea-2022-14-27>
20. S. Bouriah, **A. Salim** and M. Benchohra, On nonlinear implicit neutral generalized Hilfer fractional differential equations with terminal conditions and delay, *Topol. Algebra Appl.* **10** (2022), 77-93. <https://doi.org/10.1515/taa-2022-0115>
19. **A. Salim**, M. Benchohra and J. E. Lazreg, Nonlocal k -generalized ψ -Hilfer impulsive initial value problem with retarded and advanced arguments, *Appl. Anal. Optim.* **6** (2022), 21-47. <http://yokohamapublishers.jp/online2/opaa/vol6/p21.html>
18. N. Benkhetto, K. Aissani, **A. Salim**, M. Benchohra and C. Tunc, Controllability of fractional integro-differential equations with infinite delay and non-instantaneous impulses, *Appl. Anal. Optim.* **6** (2022), 79-94. <http://yokohamapublishers.jp/online2/opaa/vol6/p79.html>
17. **A. Salim**, S. Abbas, M. Benchohra and E. Karapinar, Global stability results for Volterra-Hadamard random partial fractional integral equations. *Rend. Circ. Mat. Palermo (2)*. (2022), 1-13. <https://doi.org/10.1007/s12215-022-00770-7>
16. **A. Salim**, J. E. Lazreg, B. Ahmad, M. Benchohra and J. J. Nieto, A Study on k -Generalized ψ -Hilfer Derivative Operator, *Vietnam J. Math.* (2022). <https://doi.org/10.1007/s10013-022-00561-8>
15. **A. Salim**, M. Benchohra, J. E. Lazreg and G. N'Guérékata, Existence and k -Mittag-Leffler-Ulam-Hyers stability results of k -generalized ψ -Hilfer boundary value problem. *Nonlinear Studies.* **29** (2022), 359-379. <http://www.nonlinearstudies.com/index.php/nonlinear/article/view/2900>
14. **A. Salim**, M. Benchohra, J. E. Lazreg and J. Henderson, On k -generalized ψ -Hilfer boundary value problems with retardation and anticipation. *Advances in the Theory of Nonlinear Analysis and its Application.* **6** (2022), 173-190. <https://doi.org/10.31197/atnaa.973992>
13. **A. Salim**, M. Benchohra, J. R. Graef and J. E. Lazreg, Initial value problem for hybrid ψ -Hilfer fractional implicit differential equations. *J. Fixed Point Theory Appl.* **24** (2022), 14 pp. <https://doi.org/10.1007/s11784-021-00920-x>
12. **A. Salim**, S. Abbas, M. Benchohra and E. Karapinar, A Filippov's theorem and topological structure of solution sets for fractional q -difference inclusions. *Dynam. Systems Appl.* **31** (2022), 17-34. <https://doi.org/10.46719/dsa202231.01.02>
11. J. E. Lazreg, M. Benchohra and **A. Salim**, Existence and Ulam stability of k -Generalized ψ -Hilfer Fractional Problem. *J. Innov. Appl. Math. Comput. Sci.* **2** (2022), 01-13. http://jiamcs.centre-univ-mila.dz/index.php/jiamcs/article/view/v2i2_19
10. N. Laledj, **A. Salim**, J. E. Lazreg, S. Abbas, B. Ahmad and M. Benchohra, On implicit fractional q -difference equations: Analysis and stability. *Math. Methods Appl. Sci.* **45** (17) (2022), 10775-10797. <https://doi.org/10.1002/mma.8417>
9. A. Heris, **A. Salim**, M. Benchohra and E. Karapinar, Fractional partial random differential equations with infinite delay. *Results in Physics.* (2022). <https://doi.org/10.1016/j.rinp.2022.105557>
8. C. Derbazi, H. Hammouche, **A. Salim** and M. Benchohra, Measure of noncompactness and fractional Hybrid differential equations with Hybrid conditions. *Differ. Equ. Appl.* **14** (2022), 145-161. <http://dx.doi.org/10.7153/dea-2022-14-09>
7. M. Benchohra, F. Bouazzaoui, E. Karapinar and **A. Salim**, Controllability of second order functional random differential equations with delay. *Mathematics.* **10** (2022), 16pp. <https://doi.org/10.3390/math10071120>

2021

6. **A. Salim**, M. Benchohra, J. E. Lazreg, J. J. Nieto and Y. Zhou, Nonlocal initial value problem for hybrid generalized Hilfer-type fractional implicit differential equations. *Nonauton. Dyn. Syst.* **8** (2021), 87-100. <https://doi.org/10.1515/msds-2020-0127>
5. **A. Salim**, M. Benchohra, J. E. Lazreg and G. N'Guérékata, Boundary value problem for nonlinear implicit generalized Hilfer-type fractional differential equations with impulses. *Abstr. Appl. Anal.* **2021** (2021), 17pp. <https://doi.org/10.1155/2021/5592010>
4. **A. Salim**, M. Benchohra, J. E. Lazreg and E. Karapinar, On k -generalized ψ -Hilfer impulsive boundary value problem with retarded and advanced arguments. *J. Math. Ext.* **15** (2021), 1-39. <https://doi.org/10.30495/JME.SI.2021.2187>
3. **A. Salim**, M. Benchohra, J. R. Graef and J. E. Lazreg, Boundary value problem for fractional generalized Hilfer-type fractional derivative with non-instantaneous impulses. *Fractal Fract.* **5** (2021), 1-21. <https://dx.doi.org/10.3390/fractalfract5010001>

2. **A. Salim**, M. Benchohra, J. E. Lazreg and J. Henderson, Nonlinear implicit generalized Hilfer-type fractional differential equations with non-instantaneous impulses in Banach spaces. *Advances in the Theory of Nonlinear Analysis and its Application*. **4** (2020), 332-348. <https://doi.org/10.31197/atnaa.825294>
1. **A. Salim**, M. Benchohra, E. Karapinar and J. E. Lazreg, Existence and Ulam stability for impulsive generalized Hilfer-type fractional differential equations. *Adv. Differ. Equ.* **2020** (2020), 21 pp. <https://doi.org/10.1186/s13662-020-03063-4>

Conferences and Seminars

1st International Conference on Frontiers in Academic Research

Konya, Turkey

PRESENTER

February 18-21, 2023

- A Study on ψ -Hilfer Fractional Differential Equations with Non-local Conditions and State-Dependent Delay in Banach Spaces.

2nd International Conference on Innovative Academic Studies

Konya, Turkey

PRESENTER

January 28-31, 2023

- On ψ -Hilfer Fractional Differential Equations with Terminal Conditions and State-Dependent Delay.

3rd International Conference on Engineering and Applied Natural Sciences

Konya, Turkey

PRESENTER

January 14-17, 2023

- On Generalized Hilfer Fractional Differential Equations with Nonlocal Conditions and Delay.

1st International Conference on Engineering, Natural and Social Sciences

Konya, Turkey

PRESENTER

December 20-23, 2022

- A Study on Some Generalized Hilfer Fractional Differential Equations with Boundary Conditions and Finite Delay.

1st International Conference on Scientific and Academic Research

Konya, Turkey

PRESENTER

December 10-13, 2022

- On Some Generalized Hilfer Fractional Differential Equations with Infinite Delay.

4th International Conference on Applied Engineering and Natural Sciences

Konya, Turkey

PRESENTER

November 10-13, 2022

- On Some Hybrid q -Difference Equations with Delay.

National Conference on Mathematics and Applications NCMA2022

Mila - Algeria

PRESENTER

29 November 2022

- A Study on Some Generalized Hilfer Fractional Differential Equations with Boundary Conditions and Delay.

COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING (CMSE-2022)

India

PRESENTER

April. 22-24, 2022

- A Study on Some Impulsive Boundary Value Problems with Retardation and Anticipation and Generalized ψ -Hilfer Fractional Derivative.

Conference of the Southern Africa Mathematical Sciences Association

South Africa

PRESENTER AT SAMSA2021

Nov. 2021

- Presented a scientific paper titled: Nonlocal k -generalized ψ -Hilfer terminal value problem with retardation and anticipation.

Yarmouk Mathematics Conference 2021

Jordan

PRESENTER

Sep. 2021

- Presented a scientific paper titled: On k -generalized ψ -Hilfer boundary value problems with retardation and anticipation.

52nd Annual Iranian Mathematics Conference

Iran

PRESENTER

Aug. 2021

- Presented a scientific paper titled: Existence and k -Mittag-Leffler-Ulam-Hyers stability results of k -generalized ψ -Hilfer boundary value problem.

Seminar of Sidi Bel Abbès

Sidi Bel Abbès, Algeria

PRESENTER

Jul. 2021

- Presented various new scientific papers combined in a conference paper titled: A generalization of the ψ -Hilfer fractional operator.

National Conference on Applied Mathematics and Didactics

Constantine, Algeria

PRESENTER AT NCAMD2021

Jun. 2021

- Presented a new study with a paper titled: k -generalized ψ -Hilfer differential equations in Banach spaces.

International Workshop on Functional Analysis, Control Systems and Decision Support

Mostaganem, Algeria

POSTER & PRESENTATION

May. 2021

- Presented a scientific paper titled: A study on k -generalized ψ -Hilfer derivative operator.
-