

CURRICULUM VITAE

Name: Ammar KHELLAF

Rank: Associate Professor (Maitre de Conference B)

Department: Preparatory class

Email Address: ammar.khellaf@enp-constantine.dz /amarlasix@gmail.com

Educational Profile:

- Doctorate LMD in mathematics in 2019. University 8 May 1945-Guelma. Honorable mention, Algeria
- Master in Applied Mathematics in 2015. Major of the Class and of the Faculty with First Class Honours, University 8 May 1945-Guelma, Algeria.
- Licence in Applied Mathematics in 2013. Major of the Class with First Class Honours, University 8 May 1945-Guelma, Algeria.

Scientific Activities & Membership of Scientific Societies:

Member of the Laboratory of Applied Mathematics and Modelling (LMAM), University of Guelma, Algeria. Member of the Process Engineering Laboratory for Sustainable Development and Health Products (LGPDDPS), National Polytechnic School of Constantine.

List of Current Research Projects:

Title of research project: Numerical solution of integral linear equations with the study of their spectral their spectral behavior. Project code: C00L03UN410120220001 from: 01-01-2022

List of Journal Publications:

- 1) **Khellaf Ammar**, et al Generalized iterative scheme for a generalized spectral problem, The International Journal of Nonlinear Analysis and Applications (IJNAA), Jan-2023. DOI: 10.22075/IJNAA.2022.24614.2782
- 2) **Khellaf Ammar**, et al On a New Nonlinear Integro-Differential Fredholm-Chandrasekhar Equation, Boletim da Sociedade Paranaense de Matematica 41(1):1-9 Jan-2023 DOI: 10.5269/bspm.63023
- 3) Amel Boutasta, Abdelhakim Benosman, Mouna Cheriet, **Ammar Khellaf**, Force field calculation of GABA using ab-initio methods and Raman spectroscopy International Journal of Advanced Studies in Computers, Science and Engineering, Dec 2022, Vol. 11, N° 11, (2022): 31-37.
- 4) **Khellaf Ammar**, Aissaoui Mohammed Zine, New theoretical conditions for solving functional nonlinear equations by linearization then discretization, The International Journal of Nonlinear Analysis and Applications (IJNAA), Jan-2022. Doi: 10.22075/ijnaa.2022.24699.2800
- 5) Cheriet Mouna, Djemil Rayenne, **Khellaf Ammar** et al Dopamine Family Complexes With β -Cyclodextrin: Molecular Docking Studies, Polycyclic Aromatic Compounds, Aug-2021, Doi: 10.1080/10406638.2021.1970588

- 6) **Khellaf Ammar** et al, New Sufficient Conditions for the Computation of Generalized Eigenvalues, Russian Mathematics, Mar-2021. DOI:10.3103/S1066369X21020067
- 7) **Khellaf Ammar** et al, New numerical process solving nonlinear infinite- dimensional equations, Computational and Applied Mathematics, Feb-2020. DOI: 10.1007/s40314-020-1116-x
- 8) **Khellaf Ammar** et al, On the Pseudo-spectrum of Operator Pencils. Asian- European Journal of Mathematics, Aug-2020. DOI: 10.1142/S1793557120501004
- 9) **Khellaf Ammar** et al, A Note On Generalized Spectrum Approximation. Lobachevskii Journal of Mathematics, Nov-2018. DOI: 10.1134/S1995080218090263
- 10) **Khellaf Ammar**, New sufficient conditions in the generalized spectrum approach to deal with spectral pollution. Tambov University Reports, Series Natural and Technical Sciences, Oct-2018. DOI: 10.20310/1810-0198-2018-23-124-595-604
- 11) **Khellaf Ammar** et al, Eigenvalues computation by the generalized spectrum method of Schrödinger's operator. Computational & Applied Mathematics, July-2018. DOI: 10.1007/s40314-018-0673-8
- 12) **Khellaf Ammar** et al, A class of strongly stable approximation for unbounded operators. Tambov University Reports, Series Natural and Technical Sciences, June-2019. DOI: 10.20310/1810-0198-2019-24-126-218-234

List of Conference Papers

- 1) Samir Lemita, Hamza Guebbai and **Khellaf Ammar**, New version of Gauss Seidel iterative method for operators system to approach Fredholm integral equation. 8th International Conference on Modeling Simulation and Applied Optimization (ICMSAO) DOI:10.1109/ICMSAO.2019.8880320

List of Current Doctoral Research Students Co- Supervision

1. Mohammed ghaith Mahcene
2. Mohammed Mansouri