

Curriculum Vitae

1. Personal Informations

First Name : OUANNAS

Last name : Adel

Date of birth : Nouvember 3rd 1981, Oum El Bouaghi, Algeria

Department of Mathematics & Computer Science

Email : ouannas.adel@univ-ueb.dz

2. Researcher's identity

- https://scholar.google.com/citations?hl=en&user=_d4B-iUAAAAJ&view_op=list_works&sortby=pubdate
- <https://www.researchgate.net/profile/Adel-Ouannas>
- <https://orcid.org/0000-0001-9611-2047>
- <https://www.webofscience.com/wos/author/record/2510958>

3. Diplomas

Specialization	University	Year Of Graduation	Degree
Applied Mathematical Analysis	University of Constantine	2015	PhD
Applied Mathematics	University of Constantine	2006	Masters
Probabilities And Statistics	University of Oum El Bouaghi	2003	Postgraduate studies

4. Professional Experiences and affiliation

period	Employer	Position
2015-2007	University of Tebessa	Assistant Professor
2017-2015	University of Tebessa	Lecturer b
2020-2017	University of Tebessa	Lecturer A
Since 2021	University of Oum El Bouaghi	Professor

5. Professional Experiences

Dynamical systems, Chaos theory, Fractional calculus, Control theory, ODEs,.....

6. Scientific Research

- Nonlinear nabla variable-order fractional discrete systems: Asymptotic stability and application to neural networks. A Hioual, A Ouannas, G Grassi, TE Oussaeif. *Journal of Computational and Applied Mathematics* 423, 114939 1 2023 .
- Common Fixed Point Theorem in Non-Archimedean Menger PM-Spaces Using CLR Property with Application to Functional Equations. IM Batiha, LB Aoua, TE Oussaeif, A Ouannas, S Alshorman, IH Jebril. *IAENG International Journal of Applied Mathematics* 53 (1), 1-9 2023
- Solvability and Dynamics of Superlinear Reaction Diffusion Problem with Integral Condition. IM Batiha, Z Chebana, TE Oussaeif, A Ouannas, S Alshorm, A Zraiqat *IAENG International Journal of Applied Mathematics* 53 (1), 1-9 2023.
- On Global Existence of the Fractional Reaction-Diffusion System's Solution. IM Batiha, N Barrouk, A Ouannas, WG Alshanti *International Journal of Analysis and Applications* 21, 11-11 2023.
- The Fractional Discrete Predator–Prey Model: Chaos, Control and Synchronization. R Saadeh, A Abbes, A Al-Husban, A Ouannas, G Grassi. *Fractal and Fractional* 7 (2), 120 2023
- On Variable-Order Fractional Discrete Neural Networks: Existence, Uniqueness and Stability. OA Almatroud, A Hioual, A Ouannas, MM Sawalha, S Alshammari. *Fractal and Fractional* 7 (2), 118 2023.
- A New COVID-19 Pandemic Model including the Compartment of Vaccinated Individuals: Global Stability of the Disease-Free Fixed Point I Al-Shbeil, N Djenina, A Jaradat, A Al-Husban, A Ouannas, G Grassi *Mathematics* 11 (3), 576 1 2023
- Hidden multistability of fractional discrete non-equilibrium point memristor based map MT Shatnawi, A Abbes, A Ouannas, I Batiha *Physica Scripta* 2 2023
- Hidden chaotic attractors in fractional-order discrete-time systems AA Khennaoui, A Ouannas, IM Batiha, V Pham *Fractional Order Systems and Applications in Engineering*, 227-243 2023
- A New Incommensurate Fractional-Order COVID 19: Modelling and Dynamical Analysis A Al-Husban, N Djenina, R Saadeh, A Ouannas, G Grassi *Mathematics* 11 (3), 555 2023
- Hidden Homogeneous Extreme Multistability of a Fractional-Order Hyperchaotic Discrete-Time System: Chaos, Initial Offset Boosting, Amplitude Control, Control, and Synchronization AA Khennaoui, A Ouannas, S Bekiros, AA Aly, A Alotaibi, H Jahanshahi, ... *Symmetry* 15 (1), 139 2 2023
- Optimal design of PI ρ D μ -controller for artificial ventilation systems for COVID-19 patients IM Batiha, R El-Khazali, OY Ababneh, A Ouannas, RM Batyha, S Momani *AIMS Mathematics* 8 (1), 657-675 1 2023
- The fractional-order discrete COVID-19 pandemic model: stability and chaos A Abbes, A Ouannas, N Shawagfeh, H Jahanshahi *Nonlinear Dynamics* 111 (1), 965-983

7. Interests and Skills

Research field: chaos theory, fractal arithmetic, differential equations, monitoring, dynamic systems.