



Soheir Gadellah Aboalnaga Arafat

Assistant Prof. in the Mathematics Department



1 october 1991



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About me

I got a Ph.D. degree from South Valley University, faculty of science, Qena, Egypt. My research interests include dynamical systems and discrete dynamical systems. I have published research articles in reputed international journals of mathematical sciences. I have referred several research papers in mathematical journals.

Skills

LaTeX

MATHEMATICA

MATLAB

Singular

Scientific WorkPlace

Leader★6 Sarcastic★5 ★

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Interests

Pure Mathematics, Dynamical Systems, and Discrete Dynamical Systems.

Education

2022	Ph.D. South Valley University	Mathematics
2017	M.Sc. South Valley University	Mathematics
2013	Postgraduate for master degree Mathematics from the Faculty of Science	Mathematics
2012	B.Sc. Mathematics from the Faculty of Science	Mathematics

Awards and Certifications

2022	South Valley University Publication award
2020	South Valley University Publication award
2017	South Valley University Publication award

Conferences

2020	The 6th Young Researchers Conference for Basic and Engineering Sciences
2014	Fractional Calculus and its Applications
2013	The First International Conference on New Horizons in Basic and Applied Science.

Publications:

1. S Rida, ZM Khalil, Hany A Hosham, **Soheir Gadellah**, Predator-Prey fractional-order dynamical system with both the population affected by diseases. Journal of Fractional Calculus and Applications, 2014;5 (13): 1-11.
2. SZ Rida, M Khalil, HA Hosham, **S Gadellah**, Mathematical Model of Vector-Borne Plant Disease with Memory on the Host and the Vector. Progr. Fract. Differ. Appl, 2016;2 (4): 277-285.
3. AM Yousef, SZ Rida, **S Arafat**, Stability, analytic bifurcation structure and chaos control in a mutual interference host-parasitoid model, Int J Bifurcat Chaos, 2020;30 (15):205-237.
4. AM Yousef, SZ Rida, **S Arafat**, SRJ Jang, Stability, bifurcation analysis, and chaos control of a discrete bioeconomic model, Math Meth Appl Sci, 2023;46 (3):1-19, doi:10.1002/mma.8686.
- 5.
6. AM Yousef, SZ Rida, **S Arafat**, Analytical bifurcation behaviors of a host-parasitoid model with Holling type III functional response, 2023;31 (1):1-22.