Ahmed Mohamed Yousef, Ph.D.

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Employment History

2024 - · · · ·	Professor, Mathematics Department, Faculty of Science, South Valley University, Qena-
	Egypt.
2019 – 2024	Associate Professor, Mathematics Department, Faculty of Science, South Valley University, Qena-Egypt.
2013 – 2019	Assistant Professor, Mathematics Department, Faculty of Science, South Valley University, Qena-Egypt.
2008 – 2013	■ Lecturer, Mathematics Department, Faculty of Science, South Valley University, Qena- Egypt.

Education

2009 – 2013	Ph.D. Pure Mathematics, South Valley University.
	Thesis title: On Some Special Functions in means of fractional calculus.
2003 – 2008	M.Sc. Pure Mathematics, South Valley University
	Thesis title: On Some Properties of Fractional Order Derivatives For Some Special Functions.
2003	B. Sc. Mathematics, Faculty of Science, South Valley University, Egypt.

Research Publications

Journal Articles

- Yousef, AM, S. R.-J. Jang, and A. Elsadany, "Dynamic complexity of a nicholson-bailey bioeconomic model with holling type-ii functional response," *International Journal of Bifurcation and Chaos*, p. 2 450 074, 2024.
- S. R. Jang and **Yousef, Ahmed M**, "Effects of prey refuge and predator cooperation on a predator–prey system," *Journal of Biological Dynamics*, vol. 17, no. 1, p. 2 242 372, 2023.
- **Yousef, Ahmed M**, S. Z. Rida, and S. Arafat, "Analytical bifurcation behaviors of a host–parasitoid model with holling type iii functional response," *Journal of the Egyptian Mathematical Society*, vol. 31, no. 1, pp. 1–22, 2023.
- Yousef, Ahmed M, S. Z. Rida, S. Arafat, and S. R.-J. Jang, "Stability, bifurcation analysis, and chaos control of a discrete bioeconomic model," *Mathematical Methods in the Applied Sciences*, vol. 46, no. 3, pp. 3204–3222, 2023.
- **Yousef, AM**, A. M. Algelany, and A. Elsadany, "Codimension one and codimension two bifurcations in a discrete kolmogorov type predator–prey model," *Journal of Computational and Applied Mathematics*, vol. 428, p. 115 171, 2023.
- Yousef, AM, S. Rida, H. Ali, and A. Zaki, "Stability, co-dimension two bifurcations and chaos control of a host-parasitoid model with mutual interference," *Chaos, Solitons & Fractals*, vol. 166, p. 112 923, 2023.

- A. M. Aly, **Yousef**, **AM**, and N. Alsedais, "Mhd double diffusion of a nanofluid within a porous annulus using a time fractional derivative of the isph method," *International Journal of Modern Physics C*, vol. 33, no. 04, p. 2 250 056, 2022.
- 8 S. Salman, **Yousef**, **AM**, and A. Elsadany, "Dynamic behavior and bifurcation analysis of a deterministic and stochastic coupled logistic map system," *International Journal of Dynamics and Control*, pp. 1–17, 2022.
- Q. Din, **Yousef**, **AM**, and A. Elsadany, "Stability and bifurcation analysis of a discrete singular bioeconomic system," *Discrete Dynamics in Nature and Society*, vol. 2021, pp. 1–22, 2021.
- **Yousef, AM**, S. Rida, and S. Arafat, "Stability, analytic bifurcation structure and chaos control in a mutual interference host-parasitoid model," *International Journal of Bifurcation and Chaos*, vol. 30, no. 15, p. 2 050 237, 2020.
- 11 C.-H. Li and **Yousef**, **AM**, "Bifurcation analysis of a network-based sir epidemic model with saturated treatment function," *Chaos: An Interdisciplinary Journal of Nonlinear Science*, vol. 29, no. 3, 2019.
- Yousef, AM, "Stability and further analytical bifurcation behaviors of moran-ricker model with delayed density dependent birth rate regulation," *Journal of Computational and Applied Mathematics*, vol. 355, pp. 143–161, 2019.
- A. Elsadany, **Yousef**, **AM**, and A. Elsonbaty, "Further analytical bifurcation analysis and applications of coupled logistic maps," *Applied Mathematics and Computation*, vol. 338, pp. 314–336, 2018.
- Yousef, AM, S. Salman, and A. Elsadany, "Stability and bifurcation analysis of a delayed discrete predator-prey model," *International Journal of Bifurcation and Chaos*, vol. 28, no. 09, p. 1850 116, 2018.
- S. Salman and **Yousef**, **AM**, "On a fractional-order model for hbv infection with cure of infected cells," *Journal of the Egyptian Mathematical Society*, vol. 25, no. 4, pp. 445–451, 2017.
- S. Salman, **Yousef**, **AM**, and A. Elsadany, "Stability, bifurcation analysis and chaos control of a discrete predator-prey system with square root functional response," *Chaos, Solitons & Fractals*, vol. 93, pp. 20–31, 2016.
- Yousef, AM, H. Ibrahim, and S. Rida, "Solutions for the fractional differential coupled sine-gordon equation with homotopy analysis method and the modified decomposition method," *Journal of Progressive Research in Mathematics*, vol. 6, no. 4, pp. 831–841, 2016.
- Yousef, AM and S. Salman, "Backward bifurcation in a fractional-order sirs epidemic model with a nonlinear incidence rate," *International journal of nonlinear sciences and numerical simulation*, vol. 17, no. 7-8, pp. 401–412, 2016.
- **Yousef, AM**, S. Rida, and H. Ibrahim, "Approximate solution of fractional-order nonlinear sine-gordon equation," *Elixir International Journal*, vol. 82, pp. 32 549–32 553, 2015.
- S. Rida and **Yousef**, **AM**, "On the fractional order rodrigues formula for the legendre polynomials," *Advanced and applications in mathematical science*, vol. 10, pp. 509–518, 2011.

Conference Proceedings

- A. El-Sayed, S. Rida, and **Yousef, AM**, "On the fractional order Rodrigues formula for the Laguerre polynomial of Erdèlyi-Kober type," in Proceedings of the 2nd International Conference on Mathematics and Information Sciences, Sohag, Egypt, 2011.
- A. El-Sayed, S. Rida, and **Yousef, AM**, "On the nonorthogonality of the perturbed Legendre polynomials," in *Proceedings of Al-Azhar international scientific conference*, Cairo, Egypt, 2008.

Books and Chapters

1

Yousef, AM, A. Elsonbaty, E. A. Hagras, and A. Elsadany, "Chaos-based gary image encryption using two coupled competition type maps," in Springer, 2020, pp. 159–185.

Skills

Languages Strong reading, writing and speaking competencies for English, Arabic.

Coding MATLAB, WOLFRAM MATHEMATICA

Misc. Academic research, teaching, training, consultation, LaTeX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

2015 South Valley University award for scientific publishing.

2016 South Valley University award for scientific publishing.

2017 South Valley University award for scientific publishing.

2018 South Valley University award for scientific publishing.

2019 South Valley University award for scientific publishing.

2020 South Valley University award for scientific publishing.

2021 South Valley University award for scientific publishing.

2022 South Valley University award for scientific publishing.

2023 South Valley University award for scientific publishing.

References

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