

Research Group 4

Group Name	Functional Analysis
Academic Year	2021

Basic Information	
Department	Mathematics
Location	Sohag Univesity

Group Members				
No. of Prof.	No. of Ass. Prof.	No. of Lect.	No. of Ass. Lect. & Demonst.	
-	-	2	1	

Staff members

#	Name	Scientific degree	e-mail	Specializations	C.V
1	Mohammed Elmursi	lecturer	m_elmursi@science.sohag.edu.eg	Functional Analysis	https://scholar.google.com/citations?hl=en&user=tqo1VLQAAAAJ&view_op=list_works&alert_preview_top_rm=2&sortby=pubdate
2	Hasanen A. Hammad	lecturer	hassanein.hamad@science.sohag.edu.eg	Functional Analysis	https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=57191572516&zone=

Ass. Lecturers & Demonstrators

#	Name	Scientific degree	e-mail	Specializations	
3	Ahmed Nafea	Teaching Assistant	a.nafea@science.sohag.edu.eg	Functional Analysis	https://www.researchgate.net/profile/Ahmed-Nafea-4/research

Theses produced by the Lab			
M. Sc Thesis			
#	Name	Title	Approval date
1			
2			
Ph.D. Thesis			
#	Name	Title	Approval date
1	Hasanen A. Hammad	A Study of Random Common Fixed Point Theorems for Random Operators in Various Spaces and Its Applications	3-2018
2			

Articles produced by the Lab		
#	Title	Journal information
1	alpha-isometries on metric and normed linear spaces	International conference on Mathematics and Statistics (ICOMAS 2018)
2	Some results related to Bessel's inequality in inner product spaces	Journal of Mathematical Inequalities 13 (1), 205-214
3	Analytical solution for a periodic boundary random-value problem via stochastic fixed points with PPF dependence technique	Statistics, Optimization and Information Computing, 2019, 7(4), pp. 653–668
4	A modified shrinking projection methods for numerical reckoning fixed points of G-nonexpansive mappings in hilbert spaces with graph	Miskolc Mathematical Notes, 2019, 20(2), pp. 941–956
5	Common fixed point results for weakly compatible mappings under implicit relations in complex valued g-metric spaces	Information Sciences Letters, 2019, 8(3), pp. 111–119
6	PPF-dependent fixed point results for new multi-valued generalized F-contraction in the Razumikhin class with an application	Mathematics, 2019, 7(1), 52
7	Generalized contractive mappings and related results in b-metric like spaces with an application	Symmetry, 2019, 11(5), 667
8	A coupled fixed point technique for solving coupled systems of functional and nonlinear integral equations	Mathematics, 2019, 7(7), 634
9	Analytical solution of Urysohn integral equations by fixed point technique in complex valued metric spaces	Mathematics, 2019, 7(9), 852
10	A solution of fredholm integral equation by using the cyclicqs-rational contractive mappings technique in b-metric-like spaces	Symmetry, 2019, 11(9), 1184
11	Fixed-point results for a generalized almost (s, q)-Jaggi F-contraction-type on b-metric-like spaces	Mathematics, 2020, 8(1), 63
12	A technique of tripled coincidence points for solving a system of nonlinear integral equations in	Journal of Inequalities and Applications, 2020, 2020(1), 211

	POCML spaces	
13	The laminar boundary layer over a rotating paraboloid	Information Sciences Letters, 2020, 9(3), pp. 199–204
14	Shrinking Projection Methods for Accelerating Relaxed Inertial Tseng-Type Algorithm with Applications	Mathematical Problems in Engineering, 2020, 2020, 7487383
15	Solving a stochastic nonlinear integral equation via random fixed point technique in ordinary metric spaces	Mathematics in Engineering, Science and Aerospace, 2020, 11(4), pp. 889–901
16	Weak and strong convergence results for the modified noor iteration of three quasi-nonexpansive multivalued mappings in hilbert spaces	Filomat, 2020, 34(8), pp. 2495–2510
17	Solution of Nonlinear Integral Equation via Fixed Point of Cyclic $\alpha L\psi$ -Rational Contraction Mappings in Metric-Like Spaces	Bulletin of the Brazilian Mathematical Society, 2020, 51(1), pp. 81–105
18	Modified CQ-Algorithms for G -Nonexpansive Mappings in Hilbert Spaces Involving Graphs	New Mathematics and Natural Computation, 2020, 16(1), pp. 89–103
19	Advanced algorithms and common solutions to variational inequalities	Symmetry, 2020, 12(7), 1198
20	On (ϕ, ψ) -metric spaces with applications	Symmetry, 2020, 12(9), 1459
21	Generalized dynamic process for an extended multi-valued F-contraction in metric-like spaces with applications	Alexandria Engineering Journal, 2020, 59(5), pp. 3817–3825
22	A tripled fixed point technique for solving a tripled-system of integral equations and Markov process in CCbMS	Advances in Difference Equations, 2020, 2020(1), 567
23	The technique of quadruple fixed points for solving functional integral equations under a measure of noncompactness	Mathematics, 2020, 8(12), pp. 1–21, 2130
24	Tripled fixed point techniques for solving system of tripled-fractional differential equations	AIMS Mathematics, 2021, 6(3), pp. 2330–2343
25	Exciting Fixed Point Results on a Novel Space with Supportive Applications	Journal of Function Spaces, 2021, 2021, 6613774
26	Analytical Solution for Differential and Nonlinear Integral Equations via $F\omega\epsilon$ -Suzuki Contractions in	Journal of Function Spaces, 2021, 2021, 6128586

	Modified ω -Metric-Like Spaces	
27	Solutions of Fractional Differential Type Equations by Fixed Point Techniques for Multivalued Contractions	Complexity, 2021, 2021, 5730853
28	Recent Fixed-Point Results for θ - Contraction Mappings in Rectangular M- Metric Spaces with Supportive Application	Journal of Mathematics, 2021, 2021, 5564248
29	Solving a Split Feasibility Problem by the Strong Convergence of Two Projection Algorithms in Hilbert Spaces	Journal of Function Spaces, 2021, 2021, 5562694
30	Accelerated modified inertial mann and viscosity algorithms to find a fixed point of α -inverse strongly monotone operators	AIMS Mathematics, 2021, 6(8), pp. 9000–9019
31	A Fixed Point Technique for Set-Valued Contractions with Supportive Applications	Advances in Mathematical Physics, 2021, 2021, 6880478
32	Solving singular coupled fractional differential equations with integral boundary constraints by coupled fixed point methodology	AIMS Mathematics, 2021, 6(12), pp. 13370–13391
33	A Fixed Point Technique for Solving an Integro-Differential Equation Using Mixed-Monotone Mappings	Journal of Function Spaces, 2021, 2021, 9925073
34	Fixed point results for multivalued mappings with applications	Journal of Function Spaces, 2021, 2021, 9921728
35	Wardowski's Contraction and Fixed Point Technique for Solving Systems of Functional and Integral Equations	Journal of Function Spaces, 2021, 2021, 7017046
36	Approximation of the fixed point for unified three-step iterative algorithm with convergence analysis in busemann spaces	Axioms, 2021, 10(1), pp. 1–11, 26
37	Tikhonov regularization terms for accelerating inertial mann-like algorithm with applications	Symmetry, 2021, 13(4), 554
38	A weak tripled contraction for solving a fuzzy global optimization problem in fuzzy metric spaces	Symmetry, 2021, 13(4), 565
39	A novel four-step iterative scheme for approximating the fixed point with a supportive application	Information Sciences Letters, 2021, 10(2), pp. 333–339

حاصلة على شهادة الاعتماد من الهيئة القومية
لضمان جودة التعليم والاعتماد في 2012/7/12م

40	Applications to boundary value problems and homotopy theory via tripled fixed point techniques in partially metric spaces	Mathematics, 2021, 9(16), 2012
41	Exciting fixed point results under a new control function with supportive application in fuzzy cone metric spaces	Mathematics, 2021, 9(18), 2267
42	Modified Hybrid Projection Methods with SP Iterations for Quasi-Nonexpansive Multivalued Mappings in Hilbert Spaces	Bulletin of the Iranian Mathematical Society, 2021, 47(5), pp. 1399–1422
43	Effect of shrinking projection and CQ-methods on two inertial forward–backward algorithms for solving variational inclusion problems	Rendiconti del Circolo Matematico di Palermo, 2021, 70(3), pp. 1669–1683
44	Contributions of the fixed point technique to solve the 2D Volterra integral equations, Riemann–Liouville fractional integrals, and Atangana–Baleanu integral operators	Advances in Difference Equations, 2021, 2021(1), 97
45	Existence theorem for a unique solution to a coupled system of impulsive fractional differential equations in complex-valued fuzzy metric spaces	Advances in Difference Equations, 2021, 2021(1), 242
46	New coincidence point results for generalized graph-preserving multivalued mappings with applications	Advances in Difference Equations, 2021, 2021(1), 334
47	Solving a fractional-order differential equation using rational symmetric contraction mappings	Fractal and Fractional, 2021, 5(4), 159
48	New contributions for tripled fixed point methodologies via a generalized variational principle with applications	Alexandria Engineering Journal, 2022, 61(4), pp. 2687–2696