



Dr. Sami Shukri

Curriculum Vitae

Personal Data

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Author/ Researcher Identifiers & Profiles

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Teaching Experience

2022–Present **Associate Professor**, Al-Hussein Bin Talal University, Ma'an, Jordan
2019–2022 **Assistant Professor**, Al-Hussein Bin Talal University, Ma'an, Jordan
2016–2019 **Assistant Professor**, Amman Arab University, Amman, Jordan
2012–2016 **Lecturer**, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia
2011–2012 **Lecturer**, King Khaled University, Abha, Saudi Arabia
2010–2011 **Lecturer**, King Saud University, Riyadh, Saudi Arabia

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Education

- 2012–2016 **Ph.D. in Mathematics**, *King Fahd University of Petroleum & Minerals*, Dhahran, Saudi Arabia, # 189 QS World University Rankings[®]2017
Thesis Topic: Metric Fixed Point Theory
Thesis Title: Fixed Point Theory of Nonexpansive Mappings in Hyperbolic Spaces
Supervisors: Professor A. R. Khan & Professor M. A. Khamsi
- 2008–2010 **M.Sc. in Mathematics**, *Jordan University of Science & Technology*, Irbid, Jordan, # 651 QS World University Rankings[®]2011
Thesis Topic: Partial Differential Equations
Thesis Title: The Extended Tanh Method for Solving Systems of Nonlinear Wave Equations
Supervisor: Professor K. Al-Khaled
- 2003–2007 **B.Sc. in Mathematics**, *Yarmouk University*, Irbid, Jordan

PhD Thesis

- Title ***Fixed Point Theory of Nonexpansive Mappings in Hyperbolic Spaces***
- Abstract In this thesis, we establish analogues of classical theory of nonexpansive mappings in hyperbolic spaces. Some fundamental fixed point results in partially ordered Banach spaces are extended to hyperbolic spaces. A new characterization of reflexive and strictly convex Banach spaces is established. We also discuss this characterization in hyperbolic spaces. An extension of the Banach Contraction Principle for best proximity points in $CAT(0)$ spaces is obtained. Moreover, the case of nonexpansive mappings is also discussed in this setting. An extension of the Gromov geometric definition of $CAT(0)$ spaces is introduced. Finally, iterative approximation of common fixed points of nonexpansive and quasi-nonexpansive mappings defined on convex metric spaces is studied.

Masters Thesis

- Title ***The Extended Tanh Method for Solving Systems of Nonlinear Wave Equations***
- Abstract The extended tanh method with a computerized symbolic computation, is used for constructing the travelling wave solutions of coupled nonlinear equations arising in physics. The obtained solutions include solitons, kinks and plane periodic solutions. The applied method will be used to solve the generalized coupled Hirota Satsuma KdV equation.

Publications

1. **S. Shukri**, *The Closest Point Theorem in $CAT_p(0)$ Metric Spaces*. Numerical Functional Analysis and Optimization. 45(10-11), 571–579 (2024).
2. A. A. Darweesh & **S. Shukri**, *Fixed points of Suzuki-Generalized Nonexpansive Mappings in $CAT_p(0)$ Metric Spaces*. Arab. J. Math. 13(1), 227–236 (2024).
3. **S. Shukri**, *Geometrical Properties of l_p Spaces*. Fixed Point Theory, 22(2), 881-886 (2021).
4. **S. Shukri**, *Existence and Convergence of Best Proximity Points in $CAT_p(0)$ Spaces*. J. Fixed Point Theory Appl. 22(48), 1–10 (2020).

5. **S. Shukri**, *On Monotone Nonexpansive Mappings in $CAT_p(0)$ Spaces*. Fixed Point Theory Appl. 2020(8), 1–10 (2020).
6. **S. Shukri**, V. Berinde & A. R. Khan, *Fixed Points of Discontinuous Mappings in Uniformly Convex Metric Spaces*. Fixed Point Theory, 19(1), 397-406 (2018).
7. **S. Shukri** & A. R. Khan, *Best Proximity Points in Partially Ordered Metric Spaces*. Adv. Fixed Point Theory, 8(2), 118-130 (2018).
8. M. A. Khamsi & **S. Shukri**, *Generalized $CAT(0)$ Spaces*. Bull. Belg. Math. Soc. Simon Stevin, 24(3), 417 - 426 (2017).
9. A. R. Khan, H. Fukhar-Ud-Din & **S. Shukri**, *Implicit Ishikawa Type Algorithm in Hyperbolic Spaces*. Palestine Journal of Mathematics, 6(1), 101–110 (2017).
10. M. R. Alfuraidan & **S. Shukri**, *Browder & Göhde Fixed Point Theorem for G -Monotone Nonexpansive Mappings*. J. Nonlinear Sci. Appl. 9(6), 4078–4083 (2016).
11. A. R. Khan & **S. Shukri**, *Best Proximity Points in the Hilbert Ball*, Journal of Nonlinear and Convex Analysis, 17(6), 1083-1094 (2016).
12. A. R. Khan, N. Yasmin, H. Fukhar-Ud-Din & **S. Shukri**, *Viscosity Approximation Method for Generalized Asymptotically Quasi-Nonexpansive Mappings in a Convex Metric Space*. Fixed Point Theory Appl. 2015(196), 1-13 (2015).
13. **S. Shukri**, *Soliton Solutions of the Kaup-Kupershmidt and Sawada-Kotera Equations*. Studies in Mathematical Sciences, 1(1), 38-44 (2010).
14. **S. Shukri**, & K. AL-Khaled, *The Extended tanh Method for Solving Systems of Nonlinear Wave Equations*. Applied Mathematics and Computation, 217(5), 1997-2006 (2010).

Students Supervision

1. Alia Jebreel Abu Darweesh, *Fixed points of Suzuki-Generalized Nonexpansive Mappings in $CAT_p(0)$ Spaces*. Master of Science in Mathematics (2022). Al-Hussein Bin Talal University, Ma'an, Jordan

Courses Taught

1. Functional Analysis/ **M.Sc**
2. Functional Analysis/ **B.Sc**
3. Real Analysis
4. Mathematical Analysis
5. Abstract Algebra
6. Number Theory
7. Graph Theory
8. Modern Euclidean Geometry
9. Non-Euclidean Geometry
10. Logic and Set Theory
11. Advanced Engineering Mathematics

12. Calculus
13. Applied Calculus
14. Physics; Mechanics
15. History of Mathematics

Conferences and Workshops

1. The 4th International Workshop on Fixed Point Theory & Applications, organized by the Fixed Point Theory and Applications Research Group. December 22-24, 2014. King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.
2. The 5th International Workshop on weak sharp minima in optimization, organized by the Fixed Point Theory and Applications Research Group. December 14-15, 2015. King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

Computer skills

LaTeX, Mathematica, ICDL.