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Education Information

Doctorate, Quaid-i-Azam University Islamabad, Pakistan 2010 - 2015

Postgraduate, Quaid e Azam University Islamabad, Pakistan 2008 - 2010

Research Areas

Fuzzy Sets and Systems, Optimization Theory and Methods, Multiobjective Optimization, Nonlinear Programming, Linear Programming, Decision Theory, Multi Criteria Decision Making, Supply Chain and Logistics Management, Associative Rings and Algebras, Nonassociative Rings and Algebras, Algebraic Topology, Commutative Rings and Algebras, Differential Equations, Group Theory and Generalizations, Integral Equations, Partial Differential Equations, Optimization, Numerical Analysis

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2022 - Continues

Assistant Professor, Govt. College for women's, Samna Abad Faisalabad, Pakistan, Department of Mathematics, 2021 - 2021

Assistant Professor, University of Agriculture Faisalabad, (Pars Campus) Pakistan, Department of Mathematics, 2019 - 2020

Assistant Professor, Government College University Faisalabad, Pakistan, Department of Mathematics, 2019 - 2020

Assistant Professor, University of Agriculture Faisalabad, Pakistan, Department of Mathematics, 2018 - 2020

Assistant Professor, University of Sargodha (Lyallpur Campus), Faisalabad, Pakistan, Department of Mathematics , 2016 - 2019

Assistant Professor, University of Sargodha (Sargodha Campus), Pakistan, Department of Mathematics, 2015 - 2016

Academic and Administrative Experience

Head of Department, University of Sargodha (Lyallpur Campus) Faisalabad, Pakistan, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Entropy for q-rung linear diophantine fuzzy hypersoft set with its application in MADM**
Surya A., Vimala J., KAUSAR N., Stević Ž., Shah M. A.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- II. **Complex Pythagorean Normal Interval-Valued Fuzzy Aggregation Operators for Solving Medical Diagnosis Problem**
Palanikumar M., KAUSAR N., Pamucar D., Khan S., Shah M. A.
International Journal of Computational Intelligence Systems, vol.17, no.1, 2024 (SCI-Expanded)
- III. **Artificial hybrid neural network-based simultaneous scheme for solving nonlinear equations: Applications in engineering**
Shams M., KAUSAR N., Araci S., Oros G. I.
Alexandria Engineering Journal, vol.108, pp.292-305, 2024 (SCI-Expanded)
- IV. **On the Construction of Congruences over Generalized Fuzzy G-Acts**
Kousar S., Shaheen S., KAUSAR N., Pamucar D., Simic V., Salman M. A.
International Journal of Computational Intelligence Systems, vol.17, no.1, 2024 (SCI-Expanded)
- V. **Generalized roughness of three dimensional $(\epsilon, \epsilon \vee q)$ -fuzzy ideals in terms of set-valued homomorphism**
Bashir S., Mazhar R., KAUSAR N., Yaman S., Ali S. S., Afzal M. U. H.
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- VI. **Various distance between generalized Diophantine fuzzy sets using multiple criteria decision making and their real life applications**
Palanikumar M., KAUSAR N., Pamucar D., Simic V., Tolasa F. T.
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- VII. **Complex Pythagorean neutrosophic normal interval-valued set with an aggregation operators using score values**
Palanikumar M., KAUSAR N., Deveci M.
Engineering Applications of Artificial Intelligence, vol.137, 2024 (SCI-Expanded)
- VIII. **Contra-harmonic generalized fuzzy numerical scheme for solving mechanical engineering problems**
KAUSAR N., Garg H.
Journal of Applied Mathematics and Computing, vol.70, no.5, pp.4629-4653, 2024 (SCI-Expanded)
- IX. **An MCDM approach on Einstein aggregation operators under Bipolar Linear Diophantine Fuzzy Hypersoft Set**
Nithya Sri S., Vimala J., KAUSAR N., Ozbilge E., Özbilge E., Pamucar D.
Heliyon, vol.10, no.9, 2024 (SCI-Expanded)
- X. **Selection process based on new building construction work using square root vague sets and their aggregated operators**
Palanikumar M., KAUSAR N., Garg H., Nasserredine H., Pamucar D.
Engineering Applications of Artificial Intelligence, vol.131, 2024 (SCI-Expanded)
- XI. **Novelty of Different Distance Approach for Multi-Criteria Decision-Making Challenges Using q-Rung Vague Sets**
Palanikumar M., Kausar N., Pamucar D., Kadry S., Kim C., Nam Y.
CMES - Computer Modeling in Engineering and Sciences, vol.139, no.3, pp.3353-3385, 2024 (SCI-Expanded)
- XII. **Determination of medical emergency via new intuitionistic fuzzy correlation measures based on Spearman's correlation coefficient**
Ejegwa P. A., KAUSAR N., Agba J. A., Ugwuh F., Özbilge E., Ozbilge E.
AIMS Mathematics, vol.9, no.6, pp.15639-15670, 2024 (SCI-Expanded)
- XIII. **On the stability analysis of numerical schemes for solving non-linear polynomials arises in engineering problems**
Shams M., KAUSAR N., Araci S., Kong L.
AIMS Mathematics, vol.9, no.4, pp.8885-8903, 2024 (SCI-Expanded)

- XIV. **Optimizing road safety: integrated analysis of motorized vehicle using lattice ordered complex linear diophantine fuzzy soft set**
Banu K. A., Vimala J., KAUSAR N., Stević Ž.
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- XV. **Highly efficient family of two-step simultaneous method for all polynomial roots**
Shams M., KAUSAR N., Araci S., Kong L., Carpentieri B.
AIMS Mathematics, vol.9, no.1, pp.1755-1771, 2024 (SCI-Expanded)
- XVI. **Construction of Nilpotent and Solvable Lie Algebra in Picture Fuzzy Environment**
Kousar S., Arshad S., KAUSAR N., Hong T.
International Journal of Computational Intelligence Systems, vol.16, no.1, 2023 (SCI-Expanded)
- XVII. **A novel approach based on neutrosophic Bonferroni mean operator of trapezoidal and triangular neutrosophic interval environments in multi-attribute group decision making**
Nagarajan D., Kanchana A., Jacob K., KAUSAR N., Edalatpanah S. A., Shah M. A.
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- XVIII. **Robotic sensor based on score and accuracy values in q-rung complex diophantine neutrosophic normal set with an aggregation operation**
Palanikumar M., KAUSAR N., Garg H., Kadry S., Kim J.
Alexandria Engineering Journal, vol.77, pp.149-164, 2023 (SCI-Expanded)
- XIX. **Optimal type-3 fuzzy control and analysis of complicated financial systems**
Xu A., Tian M., KAUSAR N., Mohammadzadeh A., Pamucar D., Ozbilge E.
Journal of Intelligent and Fuzzy Systems, vol.44, no.5, pp.7121-7134, 2023 (SCI-Expanded)
- XX. **On efficient fractional caputo-Type simultaneous scheme for finding all roots of polynomial equations with biomedical engineering applications**
Shams M., KAUSAR N., Samaniego C., Agarwal P., Ahmed S. F., Momani S.
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- XXI. **Generalized fuzzy sets and their applications in purchase satisfaction, personnel posting and disease diagnosis**
Munir M., Kausar N., Khan S. I.
SOFT COMPUTING, vol.27, no.7, pp.3907-3920, 2023 (SCI-Expanded)
- XXII. **Modified Block Homotopy Perturbation Method for solving triangular linear Diophantine fuzzy system of equations**
Shams M., KAUSAR N., Khan N., Shah M. A.
Advances in Mechanical Engineering, vol.15, no.3, 2023 (SCI-Expanded)
- XXIII. **q-Rung orthopair fuzzy hypersoft ordered aggregation operators and their application towards green supplier**
Khan S., Gulistan M., Kausar N., Pamucar D., Ozbilge E., El-Kanj N.
Frontiers in Environmental Science, vol.10, 2023 (SCI-Expanded)
- XXIV. **Techniques for Finding Analytical Solution of Generalized Fuzzy Differential Equations with Applications**
Shams M., KAUSAR N., Yaqoob N., Arif N., Addis G. M.
Complexity, vol.2023, 2023 (SCI-Expanded)
- XXV. **Aggregation Operators for Decision Making Based on q-Rung Orthopair Fuzzy Hypersoft Sets: An Application in Real Estate Project**
Khan S., Gulistan M., KAUSAR N., Pamucar D., Hong T., Wahab H. A.
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- XXVI. **Multimodal Fuzzy Downstream Petroleum Supply Chain: A Novel Pentagonal Fuzzy Optimization**
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Computers, Materials and Continua, vol.74, no.3, pp.4861-4879, 2023 (SCI-Expanded)
- XXVII. **New applications of various distance techniques to multi-criteria decision-making challenges for ranking vague sets**
Palanikumar M., KAUSAR N., Ahmed S. F., Edalatpanah S. A., Ozbilge E., Bulut A.

- AIMS Mathematics, vol.8, no.5, pp.11397-11424, 2023 (SCI-Expanded)
- XXVIII. **OPTIMIZING TRANSPORTATION COST FOR BIOMASS SUPPLY CHAIN**
Kousar S., Sangi M. N., KAUSAR N., Agarwal P., Ozbilge E., Bulut A.
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- XXIX. **Efficient Numerical Scheme for Solving Large System of Nonlinear Equations**
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Computers, Materials and Continua, vol.74, no.3, pp.5331-5347, 2023 (SCI-Expanded)
- XXX. **Numerical scheme for estimating all roots of non-linear equations with applications**
Shams M., KAUSAR N., Araci S., Oros G. I.
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- XXXI. **Semi-Analytical Scheme for Solving Intuitionistic Fuzzy System of Differential Equations**
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IEEE Access, vol.11, pp.33205-33223, 2023 (SCI-Expanded)
- XXXII. **Input-output scaling factors tuning of type-2 fuzzy PID controller using multi-objective optimization technique**
Sabahi K., Zhang C., Kausar N., Mohammadzadeh A., Pamucar D., Mosavi A. H.
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- XXXIII. **A non-singleton type-3 fuzzy modeling: Optimized by square-root cubature kalman filter**
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Intelligent Automation and Soft Computing, vol.37, no.1, pp.17-32, 2023 (SCI-Expanded)
- XXXIV. **Medical robotic engineering selection based on square root neutrosophic normal interval-valued sets and their aggregated operators**
Palanikumar M., KAUSAR N., Garg H., Iampan A., Kadry S., Sharaf M.
AIMS Mathematics, vol.8, no.8, pp.17402-17432, 2023 (SCI-Expanded)
- XXXV. **Robot sensors process based on generalized Fermatean normal different aggregation operators framework**
Palanikumar M., KAUSAR N., Garg H., Ahmed S. F., Samaniego C.
AIMS Mathematics, vol.8, no.7, pp.16252-16277, 2023 (SCI-Expanded)
- XXXVI. **Stable Computer Method for Solving Initial Value Problems with Engineering Applications**
Shams M., Kausar N., Ozbilge E., Bulut A.
Computer Systems Science and Engineering, vol.45, no.3, pp.2617-2633, 2023 (SCI-Expanded)
- XXXVII. **Multi-objective optimization model for uncertain crop production under neutrosophic fuzzy environment: A case study**
Kousar S., Sangi M. N., Kausar N., Pamucar D., Ozbilge E., Cagin T.
AIMS Mathematics, vol.8, no.3, pp.7584-7605, 2023 (SCI-Expanded)
- XXXVIII. **ON HIGHLY EFFICIENT SIMULTANEOUS SCHEMES FOR FINDING ALL POLYNOMIAL ROOTS**
Shams M., Rafiq N., Kausar N., Agarwal P., Mir N. A., Li Y.
FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY, vol.30, no.10, 2022 (SCI-Expanded)
- XXXIX. **Efficient iterative scheme for solving non-linear equations with engineering applications**
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APPLIED MATHEMATICS IN SCIENCE AND ENGINEERING, vol.30, no.1, pp.708-735, 2022 (SCI-Expanded)
- XL. **ON INVERSE ITERATION PROCESS FOR FINDING ALL ROOTS OF NONLINEAR EQUATIONS WITH APPLICATIONS**
Shams M., Rafiq N., KAUSAR N., Agarwal P., Mir N. A., El-Kanj N.
Fractals, vol.30, no.10, 2022 (SCI-Expanded)
- XLI. **Computationally semi-numerical technique for solving system of intuitionistic fuzzy differential equations with engineering applications**
Shams M., KAUSAR N., Kousar S., Pamucar D., Ozbilge E., Tantay B.
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- XLII. **A type-3 fuzzy control for current sharing and voltage balancing in microgrids**

- Taghieh A., Mohammadzadeh A., Zhang C., KAUSAR N., Castillo O.
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- XLIII. **Multi-objective Intuitionistic Fuzzy Linear Programming model for optimization of industrial closed-loop supply chain network**
Kousar S., Batool M., KAUSAR N., Pamucar D., Ozbilge E., Tantay B.
Advances in Production Engineering And Management, vol.17, no.3, pp.381-393, 2022 (SCI-Expanded)
- XLIV. **N-Cubic q-Rung Orthopair Fuzzy Sets: Analysis of the Use of Mobile App in the Education Sector**
Madasi J. D., Khan S., Kausar N., Pamucar D., Gulistan M., Sorowen B.
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, vol.2022, 2022 (SCI-Expanded)
- XLV. **Codes over Lattice-Valued Intuitionistic Fuzzy Set Type-3 with Application to the Complex DNA Analysis**
Riaz A., Kousar S., Kausar N., Pamucar D., Addis G. M.
COMPLEXITY, vol.2022, 2022 (SCI-Expanded)
- XLVI. **Novel Development to the Theory of Dombi Exponential Aggregation Operators in Neutrosophic Cubic Hesitant Fuzzy Sets: Applications to Solid Waste Disposal Site Selection**
Rehman A. U., Gulistan M., Kausar N., Kousar S., Al-Shamiri M. M., Ismail R.
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- XLVII. **Sustainable Energy Consumption Model for Textile Industry Using Fully Intuitionistic Fuzzy Optimization Approach**
Kousar S., Shafqat U., Kausar N., Pamucar D., Karaca Y., Salman M. A.
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, vol.2022, 2022 (SCI-Expanded)
- XLVIII. **A Novel Decision-Making Process in the Environment of Generalized Version of Fuzzy Sets for the Selection of Energy Source**
Madasi J. D., Khan S., Kausar N., Pamucar D., Addis G. M., Gulistan M.
ADVANCES IN MATHEMATICAL PHYSICS, vol.2022, 2022 (SCI-Expanded)
- XLIX. **Joule heating and viscous dissipation effects in hydromagnetized boundary layer flow with variable temperature**
Naseem T., Fatima U., Munir M., Shahzad A., Kausar N., Nisar K. S., Saleel C. A., Abbas M.
CASE STUDIES IN THERMAL ENGINEERING, vol.35, 2022 (SCI-Expanded)
- L. **Analysis of Cryptocurrency Market by Using q-Rung Orthopair Fuzzy Hypersoft Set Algorithm Based on Aggregation Operators**
Khan S., Gulistan M., Kausar N., Kousar S., Pamucar D., Addis G. M.
COMPLEXITY, vol.2022, 2022 (SCI-Expanded)
- LI. **A New Type-3 Fuzzy PID for Energy Management in Microgrids**
Fan W., Mohammadzadeh A., Kausar N., Pamucar D., Ide N. A. D.
ADVANCES IN MATHEMATICAL PHYSICS, vol.2022, 2022 (SCI-Expanded)
- LII. **The Characterization of Substructures of c-Anti Fuzzy Subgroups with Application in Genetics**
Kalaiarasi K., Sudha P., Kausar N., Kousar S., Pamucar D., Ide N. A. D.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, vol.2022, 2022 (SCI-Expanded)
- LIII. **An Analysis of Algebraic Codes over Lattice Valued Intuitionistic Fuzzy Type-3 R-Submodules**
Riaz A., Kousar S., Kausar N., Pamucar D., Addis G. M.
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, vol.2022, 2022 (SCI-Expanded)
- LIV. **Intelligent Gamification Mechanics Using Fuzzy-AHP and K-Means to Provide Matched Partner Reference**
Marisa F., Ahmad S. S. S., Kausar N., Kousar S., Pamucar D., Ide N. A. D.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, vol.2022, 2022 (SCI-Expanded)
- LV. **Perfect Fuzzy Soft Tripartite Graphs and Their Complements**
Kalaiarasi K., Mahalakshmi L., Kausar N., Kousar S., Kattel P.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, vol.2022, 2022 (SCI-Expanded)
- LVI. **Topological Indices of Families of Bistar and Corona Product of Graphs**
Khalid A., Kausar N., Munir M., Gulistan M., Al-Shamiri M. M., Lamoudan T.

JOURNAL OF MATHEMATICS, vol.2022, 2022 (SCI-Expanded)

- LVII. **Generalization of Tangential Complexes of Weight Three and Their Connections with Grassmannian Complex**
Hussain S., Kausar N., Kousar S., Kattel P., Shahzad T.
MATHEMATICAL PROBLEMS IN ENGINEERING, vol.2022, 2022 (SCI-Expanded)
- LVIII. **Fault Diagnosis in Regenerative Braking System of Hybrid Electric Vehicles by Using Semigroup of Finite-State Deterministic Fully Intuitionistic Fuzzy Automata**
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- LIX. **Energy Source Allocation Decision-Making in Textile Industry: A Novel Symmetric and Asymmetric Spherical Fuzzy Linear Optimization Approach**
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- LX. **Fruit Production Planning in Semi-arid Zones: A Novel Triangular Intuitionistic Fuzzy Linear Programming Approach**
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- LXI. **Fuzzy Theory in Fog Computing: Review, Taxonomy, and Open Issues**
Al-Araji Z. J., Ahmad S. S. S., KAUSAR N., Farhani A., Ozbilgekahveci E., Cagin T.
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- LXII. **Bipolar Interval-Valued Neutrosophic Optimization Model of Integrated Healthcare System**
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CMC-COMPUTERS MATERIALS & CONTINUA, vol.73, no.3, pp.6207-6224, 2022 (SCI-Expanded)
- LXIII. **Homomorphisms of Lattice-Valued Intuitionistic Fuzzy Subgroup Type-3**
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- LXIV. **Computer Oriented Numerical Scheme for Solving Engineering Problems**
Shams M., Rafiq N., Kausar N., Mir N. A., Alalyani A.
COMPUTER SYSTEMS SCIENCE AND ENGINEERING, vol.42, no.2, pp.689-701, 2022 (SCI-Expanded)
- LXV. **Parameter identification for multiperiodic functions**
Munir M., Kausar N., Shakil M.
TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE, vol.173, 2021 (SSCI)
- LXVI. **Computer-Based Fuzzy Numerical Method for Solving Engineering and Real-World Applications**
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- LXVII. **On iterative techniques for estimating all roots of nonlinear equation and its system with application in differential equation**
Shams M., Rafiq N., Kausar N., Agarwal P., Park C., Mir N. A.
ADVANCES IN DIFFERENCE EQUATIONS, vol.2021, no.1, 2021 (SCI-Expanded)
- LXVIII. **Efficient iterative methods for finding simultaneously all the multiple roots of polynomial equation**
Shams M., Rafiq N., Kausar N., Agarwal P., Park C., Momani S.
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- LXIX. **Fuzzy Product KM-Subalgebras and Some Related Properties**
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COMPLEXITY, vol.2021, 2021 (SCI-Expanded)
- LXX. **On highly efficient derivative-free family of numerical methods for solving polynomial equation simultaneously**
Shams M., Rafiq N., Kausar N., Agarwal P., Park C., Mir N. A.
ADVANCES IN DIFFERENCE EQUATIONS, vol.2021, no.1, 2021 (SCI-Expanded)
- LXXI. **Numerical Scheme for Finding Roots of Interval-Valued Fuzzy Nonlinear Equation with Application in Optimization**

- Elmoasry A, Shams M, Yaqoob N, Kausar N, Gaba Y. U, Rafiq N.
JOURNAL OF FUNCTION SPACES, vol.2021, 2021 (SCI-Expanded)
- LXXII. **Sensitivity analysis of solute kinetics in a four compartmental model for hemodialysis patients**
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- LXXIII. **The Degree-Based Topological Indices for Two Special Families of Graphs of Diameter Three**
Khalid A., KAUSAR N., Munir M., Aydi H., Kousar S., Gaba Y. U.
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- LXXIV. **Use of Intuitionistic Fuzzy Numbers in Survey Sampling Analysis with Application in Electronic Data Interchange**
Rasheed F., Kousar S., Shabbir J., KAUSAR N., Pamucar D., Gaba Y. U.
Complexity, vol.2021, 2021 (SCI-Expanded)
- LXXV. **Neutrosophic Rayleigh Model with Some Basic Characteristics and Engineering Applications**
Khan Z., Gulistan M., KAUSAR N., Park C.
IEEE Access, vol.9, pp.71277-71283, 2021 (SCI-Expanded)
- LXXVI. **Some Studies in Hemirings by the Falling Fuzzy k -Ideals**
Anjum R., Sarfraz F., KAUSAR N., Gaba Y., Aydi H., Munir M., Salahuddin S.
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- LXXVII. **OPTIMIZATION OF THE AVERAGE MONTHLY COST OF AN EOQ INVENTORY MODEL FOR DETERIORATING ITEMS IN MACHINE LEARNING USING PYTHON**
Kalaiarasi K., Soundaria R., KAUSAR N., Agarwal P., Aydi H., Alsamir H.
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- LXXVIII. **Inverse Family of Numerical Methods for Approximating All Simple and Roots with Multiplicity of Nonlinear Polynomial Equations with Engineering Applications**
Shams M., Rafiq N., KAUSAR N., Ahmed S. F., Mir N. A., Chandra Saha S.
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- LXXIX. **The commutator of fuzzy congruences in universal algebras**
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- LXXX. **A certain class of T-intuitionistic fuzzy subgroups**
Gulzar M., Alghazzawi D., Mateen M. H., KAUSAR N.
IEEE Access, vol.8, pp.163260-163268, 2020 (SCI-Expanded)
- LXXXI. **Characterizations of ordered h -regular semirings by ordered h -ideals**
Anjum R., Ullah S., Chu Y., Munir M., KAUSAR N., Kadry S.
AIMS Mathematics, vol.5, no.6, pp.5768-5790, 2020 (SCI-Expanded)
- LXXXII. **A Novel Applications of Complex Intuitionistic Fuzzy Sets in Group Theory**
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IEEE Access, vol.8, pp.196075-196085, 2020 (SCI-Expanded)
- LXXXIII. **Characterizations of non-associative rings by the properties of their fuzzy ideals**
KAUSAR N., Islam B. u., Javaid M. Y., Ahmad S. A., Ijaz U.
Journal of Taibah University for Science, vol.13, no.1, pp.820-833, 2019 (SCI-Expanded)
- LXXXIV. **Characterizations of non-associative ordered semigroups by their fuzzy bi-ideals**
Shah T., KAUSAR N.
Theoretical Computer Science, vol.529, pp.96-110, 2014 (SCI-Expanded)
- LXXXV. **Intuitionistic fuzzy Normal Subrings over a non-associative ring**
Shah T., KAUSAR N., nayatur R.
Analele Stiintifice ale Universitatii Ovidius Constanta, Seria Matematica, vol.20, no.1, pp.369-386, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Finding new similarities measures for Type-II Diophantine neutrosophic interval valued soft sets and its basic operations**
Ahmad S. S. S., KAUSAR N., Palanikumar M.
International Journal of Neutrosophic Science, vol.25, no.1, pp.505-517, 2025 (Scopus)
- II. **Characterization of various (b, ℓ) neutrosophic ideals of an ordered Γ -semigroups**
Rajalakshmi A., KAUSAR N., Vrioni B., Kumaran K. L. M., AYDIN N., Palanikumar M.
International Journal of Neutrosophic Science, vol.25, no.2, pp.325-337, 2025 (Scopus)
- III. **Complex cubic neutrosophic set applied to subbisemiring and its extension of bisemiring**
Vrioni B., KAUSAR N., Palanikumar M., Hoxha E.
International Journal of Neutrosophic Science, vol.25, no.2, pp.259-277, 2025 (Scopus)
- IV. **Multicriteria group decision making for prioritizing IoT risk factors with linear diophantine fuzzy sets and MARCOS method**
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- XXVIII. **Studying semigroups using the properties of their prime m -ideals**
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- XL. **Anti fuzzy interior ideals on Ordered AG-groupoids**
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- XLIV. **Characterizations of Non-Associative Ordered Semigroups by Their Intuitionistic Fuzzy Bi-Ideals**
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- XLV. **Direct product of finite anti fuzzy normal sub-rings over non-associative rings**
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- XLVI. **Certain properties of-fuzzy subrings**
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FUZZY INFORMATION AND ENGINEERING, vol.12, no.4, pp.490-508, 2020 (ESCI)
- XLVIII. **Characterizations of non associative ordered semigroups by the properties of their fuzzy ideals with thresholds $(\alpha, \beta]$**
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Prikladnaya Diskretnaya Matematika, no.43, pp.37-59, 2019 (Scopus)
- XLIX. **Characterizations of non-associative rings by their intuitionistic fuzzy bi-ideals**
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European Journal of Pure and Applied Mathematics, vol.12, no.1, pp.226-250, 2019 (Scopus)
- L. **DIRECT PRODUCT OF FINITE FUZZY NORMAL SUBRINGS OVER NON-ASSOCIATIVE RINGS**
KAUSAR N., Waqar M. A.
International Journal of Analysis and Applications, vol.17, no.5, pp.752-770, 2019 (Scopus)
- LI. **Intuitionistic fuzzy ideals with thresholds $(\alpha; \beta]$ in LA-rings**
KAUSAR N., Ul Islam B., Ahmad S. A., Waqar M. A.
European Journal of Pure and Applied Mathematics, vol.12, no.3, pp.906-943, 2019 (Scopus)

Activities in Scientific Journals

JOURNAL OF FUZZY EXTENSION & APPLICATIONS, Advisory Committee Member, 2023 - Continues
DECISION MAKING: APPLICATIONS IN MANAGEMENT AND ENGINEERING, Editor, 2023 - Continues

Memberships / Tasks in Scientific Organizations

The Institute of Research engineers and Doctors, Member, 2010 - Continues, Pakistan
Pakistan Mathematical Society, Member, 2010 - Continues, Pakistan

Scientific Refereeing

Partial Differential Equations in Applied Mathematics, Other Indexed Journal, September 2023
INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, SCI Journal, May 2023
Journal of Fuzzy Extension and Applications, Other Indexed Journal, January 2023
Journal of Intelligent & Fuzzy Systems, SCI Journal, September 2022
SOFT COMPUTING, SCI Journal, June 2022
Mathematics (MDPI), SCI Journal, March 2022
SYMMETRY, INTEGRABILITY AND GEOMETRY - METHODS AND APPLICATIONS, SCI Journal, March 2022
Axioms, SCI Journal, March 2022
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, SCI Journal, January 2022
COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, January 2022
International Journal of Fuzzy Logic and Intelligent Systems, Journal Indexed in ESCI, July 2021

Congress and Symposium Activities

International Conference on Recent Development and Techniques in pure and applied Mathematics (ICRDTPAM)
Alagappa University, Karaikudi, Tamil Nadu, India, Invited Speaker, Tamil Nadu, India, 2023

Fuzzy concepts in non-associative and non-commutative algebraic structures” Department of Mathematics, Faculty of Arts and Sciences, Yildiz Technical University, Istanbul ,Türkiye, Invited Speaker, İstanbul, Turkey, 2022
the“17th Internation Pure Mathematics Conference 2016”, organized by Preston University, Islamia University Bahawalpur and Pakistan Mathematical Society, Islamabad, Pakistan, Audience, Islamabad, Pakistan, 2016
“11th Internation Pure Mathematics Conference 2010”, organized by Preston University, Quaid-i-Azam University and Pakistan Mathematical Society, Islamabad, Pakistan,, Audience, Islamabad, Pakistan, 2010

Scholarships

Indigenous PhD Scholarship of HEC, Islamabad, Pakistan, Ministry of Education, 2010 - 2015

Awards

Kausar N., Research publication Award, Yildiz Technical University, April 2023

Kausar N., Startup Research Grant Program, Higher Education Commission, Pakistan, February 2016

Kausar N., Interim Placement of Fresh PhDs Program, Higher Education Commission, Pakistan, August 2015