

Mohammed Ibrahim Al-Ghamdi

List of Publications by Year in descending order

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137
papers

1,309
citations

430754

18
h-index

454834

30
g-index

140
all docs

140
docs citations

140
times ranked

815
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving Sustainable Vegetation Indices Processing on Low-Cost Architectures. Sustainability, 2022, 14, 2521.	1.6	8
2	Social Media Big Data Analysis: Towards Enhancing Competitiveness of Firms in a Post-Pandemic World. Journal of Healthcare Engineering, 2022, 2022, 1-14.	1.1	10
3	A Hybrid Model for Intrusion Detection in IoT Applications. Wireless Communications and Mobile Computing, 2022, 2022, 1-9.	0.8	7
4	Approximation of functions by a class of Durrmeyer's Stancu type operators which includes Euler's beta function. Advances in Difference Equations, 2021, 2021, .	3.5	15
5	IoT Solution for AI-Enabled PRIVACY-PREServing with Big Data Transferring: An Application for Healthcare Using Blockchain. Energies, 2021, 14, 5364.	1.6	19
6	An Optimized Framework for WSN Routing in the Context of Industry 4.0. Sensors, 2021, 21, 6474.	2.1	64
7	Security and Privacy Issues in Medical Internet of Things: Overview, Countermeasures, Challenges and Future Directions. Sustainability, 2021, 13, 11645.	1.6	40
8	Predictive Model of Preventive Behaviors against COVID-19 in the Older Adult: The PREASOC-COVID-19 Study. International Journal of Environmental Research and Public Health, 2021, 18, 11067.	1.2	2
9	Environmental Emission Analysis of Biodiesel with Al ₂ O ₃ Nanometal Additives as Fuel in a Diesel Engine. Journal of Nanomaterials, 2021, 2021, 1-7.	1.5	5
10	Return Rate Prediction in Blockchain Financial Products Using Deep Learning. Sustainability, 2021, 13, 11901.	1.6	10
11	Impact of Cyber Attack on Saudi Aramco. , 2021, , 13-21.		0
12	A Comprehensive Analysis of Cyber Security Protection Approaches for Financial Firms: A Case of Al Rajhi Bank, Saudi Arabia. , 2021, , 8-17.		1
13	Comparison between Saudi Arabia and USA: Prevention and Dealing with Cyber Security. , 2021, , 77-87.		0
14	2021-22 Innovative Technologies to Prevent IP Cyber Attacks. , 2021, , 84-94.		2
15	History, Present 2021 and Future of Cyber Attacks. , 2021, , 71-83.		0
16	Economics Performance Under Endogenous Knowledge Spillovers. Asia-Pacific Financial Markets, 2020, 27, 175-192.	1.3	1
17	Survey on Applications of Deep Learning and Machine Learning Techniques for Cyber Security. International Journal of Interactive Mobile Technologies, 2020, 14, 210.	0.7	6
18	Starlikeness Associated with Cosine Hyperbolic Function. Mathematics, 2020, 8, 1118.	1.1	39

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19	Blending type approximation by \tilde{I} ,-Baskakov-Durrmeyer type hybrid operators. Advances in Difference Equations, 2020, 2020, .	3.5	16
20	A Strategic Vision to Reduce Cybercrime to Enhance Cyber Security. Webology, 2020, 17, 289-295.	0.3	2
21	Assessing Factors Affecting Intention to Adopt AI and ML: The Case of the Jordanian Retail Industry. Mendel, 2020, 26, 39-44.	0.5	1
22	Utilizing ICT in Sustaining National Development Using Digital Economy and IOT. International Journal of Wireless Communications and Mobile Computing, 2020, 8, 18.	0.2	2
23	An investigation into the effect of cybersecurity on attack prevention strategies. , 2020, , 53-60.		1
24	A Critical Analysis of Behavioural Crowd Dynamicsâ€”From a Modelling Strategy to Kinetic Theory Methods. Symmetry, 2019, 11, 851.	1.1	12
25	Awareness of Vitamin D Deficiency among the General Population in Jeddah, Saudi Arabia. Journal of Nutrition and Metabolism, 2019, 2019, 1-7.	0.7	24
26	Ideal relatively uniform convergence with Korovkin and Voronovskaya types approximation theorems. Filomat, 2019, 33, 4549-4560.	0.2	48
27	Multi-Criteria Decision-Making Methods in Bipolar Fuzzy Environment. International Journal of Fuzzy Systems, 2018, 20, 2057-2064.	2.3	104
28	Towards thermal-aware Hadoop clusters. Future Generation Computer Systems, 2018, 88, 40-54.	4.9	2
29	Improving Energy Efficiency of Database Clusters Through Prefetching and Caching. , 2018, , .		2
30	Genuine modified Bernsteinâ€”Durrmeyer operators. Journal of Inequalities and Applications, 2018, 2018, 104.	0.5	26
31	Towards two-phase scheduling of real-time applications in distributed systems. Journal of Network and Computer Applications, 2017, 84, 109-117.	5.8	8
32	Heterogeneous population dynamics of active particles: Progression, mutations, and selection dynamics. Mathematical Models and Methods in Applied Sciences, 2017, 27, 617-640.	1.7	75
33	Towards Thermal-Efficient Hadoop Clusters through Scheduling. , 2017, , .		0
34	Thermal-Aware Job Scheduling of MapReduce Applications on High Performance Clusters. , 2017, , .		1
35	Thermal Profiling and Modeling of Hadoop Clusters Using BigData Applications. , 2017, , .		0
36	On Entropy Dynamics for Active â€œLivingâ€•Particles. Entropy, 2017, 19, 525.	1.1	1

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37	Novel Concepts of Bipolar Fuzzy BCK-Submodules. Discrete Dynamics in Nature and Society, 2017, 2017, 1-7.	0.5	0
38	Maximum total welfare versus growth of R&D networks. Journal of Mathematics in Industry, 2017, 7, .	0.7	1
39	On a class of solvable higher-order difference equations. Filomat, 2017, 31, 461-477.	0.2	6
40	Economic returns in forming stable R&D networks. SpringerPlus, 2016, 5, 1570.	1.2	2
41	Towards energy-efficient multicore database systems. , 2016, , .		1
42	Profiling Energy Usage of Web-Service Applications on Clusters. , 2016, , .		0
43	On the complex interplay between learning and dynamics in life sciences. Physics of Life Reviews, 2016, 16, 142-143.	1.5	1
44	TIGER: Thermal-Aware File Assignment in Storage Clusters. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 558-573.	4.0	13
45	Semi-metric spaces and fixed points of $\hat{\Gamma}$ -contractive maps. Journal of Nonlinear Science and Applications, 2016, 09, 3147-3156.	0.4	3
46	Stability of Antibody Immunity Virus Dynamics Model with Nonlinear Incidence and Distributed Invasion and Production Delays. Journal of Computational and Theoretical Nanoscience, 2016, 13, 851-855.	0.4	0
47	Construction of a common solution of a finite family of variational inequality problems for monotone mappings. Journal of Nonlinear Science and Applications, 2016, 09, 1645-1657.	0.4	1
48	Fixed points of Bregman relatively nonexpansive mappings and solutions of variational inequality problems. Journal of Nonlinear Science and Applications, 2016, 09, 2541-2552.	0.4	1
49	TERN: A Self-Adjusting Thermal Model for Dynamic Resource Provisioning in Data Centers. , 2015, , .		1
50	Global Properties of Viral Infection Model with General Incidence Rate Function and Two Distributed Delays. Journal of Computational and Theoretical Nanoscience, 2015, 12, 3566-3571.	0.4	0
51	A scheme for a solution of a variational inequality for a monotone mapping and a fixed point of a pseudocontractive mapping. Journal of Inequalities and Applications, 2015, 2015, .	0.5	4
52	On fixed point theory in topological posets, extended quasi-metric spaces and an application to asymptotic complexity of algorithms. Fixed Point Theory and Applications, 2015, 2015, .	1.1	1
53	Stability of Pexiderized Quadratic Functional Equation in Random 2-Normed Spaces. Journal of Function Spaces, 2015, 2015, 1-7.	0.4	2
54	Qâ€symmetry and conditional Qâ€symmetries for Drinfel'dâ€Sokolovâ€Wilson system. Mathematical Methods in the Applied Sciences, 2015, 38, 4357-4364.	1.2	0

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55	Boundedness character of the recursive sequence $x_n = \hat{1} + \hat{\alpha}^j - 1 \times x_n^{\hat{\alpha}^j}$. Applied Mathematics Letters, 2015, 50, 83-90.	1.5	1
56	Mathematics toward systems biology and complexity. Physics of Life Reviews, 2015, 12, 85-90.	1.5	2
57	A fixed point theorem in partial quasi-metric spaces and an application to Software Engineering. Applied Mathematics and Computation, 2015, 268, 1292-1301.	1.4	14
58	On the interplay between mathematics and biology. Physics of Life Reviews, 2015, 12, 44-64.	1.5	43
59	Frog. ACM Transactions on Storage, 2015, 11, 1-28.	1.4	1
60	A Legendre tau-Spectral Method for Solving Time-Fractional Heat Equation with Nonlocal Conditions. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	3
61	Computation of Spectral Parameter of Discontinuous Dirac Systems with a Gaussian Multiplier. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.3	0
62	A Shifted Jacobi-Gauss Collocation Scheme for Solving Fractional Neutral Functional-Differential Equations. Advances in Mathematical Physics, 2014, 2014, 1-8.	0.4	1
63	TOPS: Two-phase scheduling for distributed real-time systems. , 2014, , .		1
64	The implicit midpoint rule for nonexpansive mappings. Fixed Point Theory and Applications, 2014, 2014, .	1.1	30
65	On Solutions of Variational Inequality Problems via Iterative Methods. Abstract and Applied Analysis, 2014, 2014, 1-10.	0.3	1
66	Strong Convergence Theorems for Quasi-Bregman Nonexpansive Mappings in Reflexive Banach Spaces. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.4	2
67	An Efficient Numerical Approach for Solving Nonlinear Coupled Hyperbolic Partial Differential Equations with Nonlocal Conditions. Abstract and Applied Analysis, 2014, 2014, 1-14.	0.3	3
68	On the Periodicity of Some Classes of Systems of Nonlinear Difference Equations. Abstract and Applied Analysis, 2014, 2014, 1-6.	0.3	3
69	Approximation Theorems for Functions of Two Variables via \tilde{f} -Convergence. Journal of Function Spaces, 2014, 2014, 1-5.	0.4	0
70	More on a rational second-order difference equation. Applied Mathematics and Computation, 2014, 236, 565-571.	1.4	0
71	A Model Predictive Control Approach to Combined Heat and Power Dynamic Economic Dispatch Problem. Arabian Journal for Science and Engineering, 2014, 39, 7117-7125.	1.1	7
72	Eventual periodicity of some systems of max-type difference equations. Applied Mathematics and Computation, 2014, 236, 635-641.	1.4	13

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73	Long-term behavior of positive solutions of a system of max-type difference equations. Applied Mathematics and Computation, 2014, 235, 567-574.	1.4	10
74	Thermal Modeling and Analysis of Cloud Data Storage Systems. Journal of Communications, 2014, 9, 299-311.	1.3	6
75	Boundedness character of a max-type system of difference equations of second order. Electronic Journal of Qualitative Theory of Differential Equations, 2014, , 1-12.	0.2	9
76	Development Write Performance by Enhancing Internal Parallelism of Solid State Drives. World Journal of Computer Application and Technology, 2014, 2, 52-60.	0.8	0
77	An efficient spectral collocation algorithm for nonlinear Phi-four equations. Boundary Value Problems, 2013, 2013, .	0.3	9
78	A Legendre-Gauss collocation method for neutral functional-differential equations with proportional delays. Advances in Difference Equations, 2013, 2013, .	3.5	20
79	Thermal Modeling of Hybrid Storage Clusters. Journal of Signal Processing Systems, 2013, 72, 181-196.	1.4	5
80	Fixed point and coupled fixed point theorems on b-metric-like spaces. Journal of Inequalities and Applications, 2013, 2013, .	0.5	81
81	Logarithmic density and logarithmic statistical convergence. Advances in Difference Equations, 2013, 2013, .	3.5	7
82	Hankel matrix transformation of the Walshâ€“Fourier series. Applied Mathematics and Computation, 2013, 224, 278-282.	1.4	5
83	TIGER: Thermal-aware file assignment in storage clusters. , 2013, , .		0
84	Introducing Materials Today: Proceedings. Materials Today, 2013, 16, 460.	8.3	0
85	On a nonlinear second order system of difference equations. Applied Mathematics and Computation, 2013, 219, 11388-11394.	1.4	4
86	The operational matrix of Caputo fractional derivatives of modified generalized Laguerre polynomials and its applications. Advances in Difference Equations, 2013, 2013, .	3.5	9
87	On a Class of Solvable Difference Equations. Abstract and Applied Analysis, 2013, 2013, 1-7.	0.3	8
88	Global Dynamics of Virus Infection Model with Antibody Immune Response and Distributed Delays. Discrete Dynamics in Nature and Society, 2013, 2013, 1-9.	0.5	7
89	A New Legendre Spectral Galerkin and Pseudo-Spectral Approximations for Fractional Initial Value Problems. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.3	4
90	Fast Spectral Collocation Method for Solving Nonlinear Time-Delayed Burgers-Type Equations with Positive Power Terms. Abstract and Applied Analysis, 2013, 2013, 1-12.	0.3	3

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91	Properties and Iterative Methods for the Q-Lasso. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-8.	0.3	4
92	Numerical Solution of a Class of Functional-Differential Equations Using Jacobi Pseudospectral Method. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-9.	0.3	2
93	Hepatitis B Virus Dynamics: Modeling, Analysis, and Optimal Treatment Scheduling. <i>Discrete Dynamics in Nature and Society</i> , 2013, 2013, 1-9.	0.5	13
94	Approximate Solutions of Fisher's Type Equations with Variable Coefficients. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-10.	0.3	4
95	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -Statistical Convergence in Paranormed Space. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-5.	0.3	7
96	PEAM: Predictive Energy-Aware Management for Storage Systems. , 2013, , .		2
97	On a higher-order system of difference equations. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2013, , 1-18.	0.2	5
98	Effect of Variable Viscosity on Vortex Instability of Non-Darcy Mixed Convection Boundary Layer Flow Adjacent to a Nonisothermal Horizontal Surface in a Porous Medium. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-14.	0.6	3
99	Minimum-Norm Fixed Point of Pseudocontractive Mappings. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-15.	0.3	3
100	Numerical Solutions of Odd Order Linear and Nonlinear Initial Value Problems Using a Shifted Jacobi Spectral Approximations. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-25.	0.3	5
101	On Some Generalizations of Commuting Mappings. <i>Abstract and Applied Analysis</i> , 2012, 2012, 1-6.	0.3	10
102	Invariant and Absolute Invariant Means of Double Sequences. <i>Journal of Function Spaces and Applications</i> , 2012, 2012, 1-9.	0.5	3
103	Solution of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle$ Tj ETQq1 1 0.784314 rgBT /O Equation by Differential Transform Method. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-14.	0.6	5
104	Improving write performance by enhancing internal parallelism of Solid State Drives. , 2012, , .		3
105	ORCA: An offloading framework for I/O-intensive applications on clusters. , 2012, , .		0
106	Thermal modeling and analysis of storage systems. , 2012, , .		11
107	Multicore-Enabled Smart Storage for Clusters. , 2012, , .		1
108	Strong convergence theorems for a common point of solution of variational inequality, solutions of equilibrium and fixed point problems. <i>Fixed Point Theory and Applications</i> , 2012, 2012, .	1.1	5

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109	Stability of functional equation obtained through a fixed-point alternative in intuitionistic fuzzy normed spaces. <i>Advances in Difference Equations</i> , 2012, 2012, .	3.5	11
110	A new modified generalized Laguerre operational matrix of fractional integration for solving fractional differential equations on the half line. <i>Advances in Difference Equations</i> , 2012, 2012, .	3.5	38
111	A shifted Jacobi-Gauss-Lobatto collocation method for solving nonlinear fractional Langevin equation involving two fractional orders in different intervals. <i>Boundary Value Problems</i> , 2012, 2012, .	0.3	35
112	Statistical summability through a lacunary sequence in locally solid Riesz spaces. <i>Journal of Inequalities and Applications</i> , 2012, 2012, .	0.5	21
113	Statistical limit superior and limit inferior in intuitionistic fuzzy normed spaces. <i>Journal of Inequalities and Applications</i> , 2012, 2012, .	0.5	3
114	New upper bounds of $n!$. <i>Journal of Inequalities and Applications</i> , 2012, 2012, .	0.5	8
115	Best proximity point results in geodesic metric spaces. <i>Fixed Point Theory and Applications</i> , 2012, 2012, 234.	1.1	6
116	A Pipelining Approach to Informed Prefetching in Distributed Multi-level Storage Systems. , 2012, , .		7
117	ES-MPICH2: A Message Passing Interface with Enhanced Security. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2012, 9, 361-374.	3.7	10
118	Some properties of weak form of γ -semi-open sets. <i>Tamkang Journal of Mathematics</i> , 2012, 43, .	0.3	0
119	A Secure File Allocation Algorithm for Heterogeneous Distributed Systems. , 2011, , .		3
120	Secure Fragment Allocation in a Distributed Storage System with Heterogeneous Vulnerabilities. , 2011, , .		5
121	A Brief History of the <i>IEEE Transactions on Computers</i> . <i>IEEE Transactions on Computers</i> , 2011, 60, 449-449.	2.4	0
122	Fixed point theorems for convex contraction mappings on cone metric spaces. <i>Mathematical and Computer Modelling</i> , 2011, 54, 2020-2026.	2.0	30
123	Convergence of Ishikawa's iteration method for pseudocontractive mappings. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011, 74, 7304-7311.	0.6	20
124	A Message-Scheduling Scheme for Energy Conservation in Multimedia Wireless Systems. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2011, 41, 272-283.	3.4	2
125	Reliability analysis of an energy-aware RAID system. , 2011, , .		8
126	Global Properties of Virus Dynamics Models with Multitarget Cells and Discrete-Time Delays. <i>Discrete Dynamics in Nature and Society</i> , 2011, 2011, 1-19.	0.5	10

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127	An automatic prefetching and caching system. , 2010, , .		16
128	Improving Energy Efficiency and Security for Disk Systems. , 2010, , .		1
129	ES-MPICH2: A Message Passing Interface with enhanced security. , 2010, , .		6
130	Periodic packets in energy-aware wireless networks. , 2008, , .		0
131	Improving Security of Real-Time Wireless Networks Through Packet Scheduling [Transactions Letters]. IEEE Transactions on Wireless Communications, 2008, 7, 3273-3279.	6.1	22
132	PARM: A Power-Aware Message Scheduling Algorithm for Real-Time Wireless Networks. , 2008, , .		7
133	Scheduling of Periodic Packets in Energy-Aware Wireless Networks. Performance, Computing and Communications Conference (IPCCC), IEEE International, 2007, , .	0.0	6
134	Integrating Fault Recovery and Quality of Security in Real-Time Systems. , 2007, , .		0
135	PARM. , 2005, , .		19
136	ON THE RIESZ REPRESENTATION THEOREM IN TOPOLOGICAL VECTOR SPACES. Studia Scientiarum Mathematicarum Hungarica, 2000, 36, 347-352.	0.1	0
137	AWARDS: An Adaptive Write Strategy for Secure Local Disk Systems. , 0, , .		8