

# Mohammed Gharib

## List of Publications by Year in descending order

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67  
papers

9,884  
citations

50276  
46  
h-index

144013  
57  
g-index

68  
all docs

68  
docs citations

68  
times ranked

6991  
citing authors

#	ARTICLE	IF	CITATIONS
1	LB-OPAR: Load balanced optimized predictive and adaptive routing for cooperative UAV networks. Ad Hoc Networks, 2022, 132, 102878.	5.5	6
2	OPAR: Optimized Predictive and Adaptive Routing for Cooperative UAV Networks. , 2021, , .		4
3	An Exhaustive Study of Using Commercial LTE Network for UAV Communication in Rural Areas. , 2021, , .		12
4	Modeling and Evaluation of Multi-Hop Wireless Networks Using SRNs. IEEE Transactions on Network Science and Engineering, 2021, 8, 662-679.	6.4	5
5	VeriVANca framework: verification of VANETs by property-based message passing of actors in Rebeca with inheritance. International Journal on Software Tools for Technology Transfer, 2020, 22, 617-633.	1.9	4
6	An area-scalable human-based mobility model. Computer Networks, 2020, 177, 107300.	5.1	3
7	UASTrustChain: A Decentralized Blockchain- Based Trust Monitoring Framework for Autonomous Unmanned Aerial Systems. IEEE Access, 2020, 8, 226074-226088.	4.2	12
8	Secure Overlay Routing for Large Scale Networks. IEEE Transactions on Network Science and Engineering, 2019, 6, 501-511.	6.4	5
9	VeriVANca: An Actor-Based Framework for Formal Verification of Warning Message Dissemination Schemes in VANETs. Lecture Notes in Computer Science, 2019, , 244-259.	1.3	2
10	SLoPCloud: An Efficient Solution for Locality Problem in Peer-to-Peer Cloud Systems. Algorithms, 2018, 11, 150.	2.1	2
11	Throughput Analysis of IEEE 802.11 Multi-Hop Wireless Networks With Routing Consideration: A General Framework. IEEE Transactions on Communications, 2018, 66, 5430-5443.	7.8	14
12	Fully distributed ECC-based key management for mobile ad hoc networks. Computer Networks, 2017, 113, 269-283.	5.1	29
13	Large-amplitude flapping of an inverted flag in a uniform steady flow “a vortex-induced vibration. Journal of Fluid Mechanics, 2016, 793, 524-555.	3.4	75
14	Secure Overlay Routing Using Key Pre-Distribution: A Linear Distance Optimization Approach. IEEE Transactions on Mobile Computing, 2016, 15, 2333-2344.	5.8	8
15	Probabilistic Key Pre-Distribution for Heterogeneous Mobile Ad Hoc Networks Using Subjective Logic. , 2015, , .		3
16	IDS Modeling and Evaluation in WANETs against Black/Gray-hole Attacks using Stochastic Models. International Journal of Ad Hoc and Ubiquitous Computing, 2015, 1, 1.	0.5	0
17	Changing the academic culture: Valuing patents and commercialization toward tenure and career advancement. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6542-6547.	7.1	79
18	A novel human mobility model for MANETs based on real data. , 2014, , .		1

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19	Efficiency improvement of straight-bladed vertical-axis wind turbines with an upstream deflector. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 115, 48-52.	3.9	93
20	Fully Distributed Self Certified Key Management for Large-Scale MANETs. , 2013, , .		2
21	Expert key selection impact on the MANETs' performance using probabilistic key management algorithm. , 2013, , .		3
22	A Novel Probabilistic Key Management Algorithm for Large-Scale MANETs. , 2013, , .		11
23	Experimental study of three-dimensional vortex structures in translating and rotating plates. Experiments in Fluids, 2010, 49, 329-339.	2.4	115
24	Echocardiographic Particle Image Velocimetry: A Novel Technique for Quantification of Left Ventricular Blood Vorticity Pattern. Journal of the American Society of Echocardiography, 2010, 23, 86-94.	2.8	400
25	A Novel Method for Supporting Locality in Peer-to-Peer Overlays Using Hypercube Topology. , 2010, , .		4
26	The Effect of Using Cube Connected Cycle for Improving Locality Awareness in Peer-to-Peer Networks. , 2010, , .		0
27	Reversing Blood Flows Act through klf2a to Ensure Normal Valvulogenesis in the Developing Heart. PLoS Biology, 2009, 7, e1000246.	5.6	272
28	On Mitral Valve Dynamics and its Connection to Early Diastolic Flow. Annals of Biomedical Engineering, 2009, 37, 1-13.	2.5	76
29	Influence of microcalcifications on vulnerable plaque mechanics using FSI modeling. Journal of Biomechanics, 2008, 41, 1111-1118.	2.1	157
30	Correlation Between Vortex Ring Formation and Mitral Annulus Dynamics During Ventricular Rapid Filling. ASAIO Journal, 2007, 53, 8-16.	1.6	71
31	Role of the tip vortex in the force generation of low-aspect-ratio normal flat plates. Journal of Fluid Mechanics, 2007, 581, 453-468.	3.4	134
32	The Embryonic Vertebrate Heart Tube Is a Dynamic Suction Pump. Science, 2006, 312, 751-753.	12.6	260
33	The formation number of vortex rings formed in uniform background co-flow. Journal of Fluid Mechanics, 2006, 556, 147.	3.4	73
34	Rapid three-dimensional imaging and analysis of the beating embryonic heart reveals functional changes during development. Developmental Dynamics, 2006, 235, 2940-2948.	1.8	134
35	Two-frame 3D particle tracking. Measurement Science and Technology, 2006, 17, 1680-1692.	2.6	143
36	Optimal vortex formation as an index of cardiac health. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6305-6308.	7.1	289

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37	Experimental study of the behavior of a valveless impedance pump. Experiments in Fluids, 2005, 38, 534-540.	2.4	77
38	The role of optimal vortex formation in biological fluid transport. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1557-1560.	2.6	90
39	Flow patterns generated by oblate medusan jellyfish: field measurements and laboratory analyses. Journal of Experimental Biology, 2005, 208, 1257-1265.	1.7	201
40	Thrust Augmentation and Vortex Ring Evolution in a Fully-Pulsed Jet. AIAA Journal, 2005, 43, 792-801.	2.6	77
41	Body-induced vortical flows: a common mechanism for self-corrective trimming control in boxfishes. Journal of Experimental Biology, 2005, 208, 327-344.	1.7	67
42	Starting flow through nozzles with temporally variable exit diameter. Journal of Fluid Mechanics, 2005, 538, 111.	3.4	108
43	Uncovering the physics of flapping flat plates with artificial evolution. Journal of Fluid Mechanics, 2005, 534, 403-409.	3.4	101
44	A valveless micro impedance pump driven by electromagnetic actuation. Journal of Micromechanics and Microengineering, 2005, 15, 861-866.	2.6	67
45	Fluid entrainment by isolated vortex rings. Journal of Fluid Mechanics, 2004, 511, 311-331.	3.4	146
46	Intracardiac fluid forces are an essential epigenetic factor for embryonic cardiogenesis. Nature, 2003, 421, 172-177.	27.8	943
47	Leading-Edge Vortex Structure of Nonslender Delta Wings at Low Reynolds Number. AIAA Journal, 2003, 41, 16-26.	2.6	100
48	Hydrodynamic stability of swimming in ostraciid fishes: role of the carapace in the smooth trunkfish <i>Lactophrys triqueter</i> (Teleostei: Ostraciidae). Journal of Experimental Biology, 2003, 206, 725-744.	1.7	75
49	Defocusing digital particle image velocimetry and the three-dimensional characterization of two-phase flows. Measurement Science and Technology, 2002, 13, 683-694.	2.6	165
50	Leonardo's vision of flow visualization. Experiments in Fluids, 2002, 33, 219-223.	2.4	66
51	The Structure and Function of the Helical Heart and Its Buttress Wrapping. I. The Normal Macroscopic Structure of the Heart. Seminars in Thoracic and Cardiovascular Surgery, 2001, 13, 301-319.	0.6	219
52	The Structure and Function of the Helical Heart and Its Buttress Wrapping. IV. Concepts of Dynamic Function From the Normal Macroscopic Helical Structure. Seminars in Thoracic and Cardiovascular Surgery, 2001, 13, 342-357.	0.6	62
53	Vortex Shedding as a Mechanism for Free Emboli Formation in Mechanical Heart Valves. Journal of Biomechanical Engineering, 2000, 122, 125-134.	1.3	140
54	A universal time scale for vortex ring formation. Journal of Fluid Mechanics, 1998, 360, 121-140.	3.4	934

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55	Circulation and formation number of laminar vortex rings. Journal of Fluid Mechanics, 1998, 376, 297-318.	3.4	167
56	Experimental investigation of the vorticity generation within a spilling water wave. Journal of Fluid Mechanics, 1997, 330, 113-139.	3.4	67
57	On errors of digital particle image velocimetry. Measurement Science and Technology, 1997, 8, 1427-1440.	2.6	332
58	The effect of a discrete window offset on the accuracy of cross-correlation analysis of digital PIV recordings. Experiments in Fluids, 1997, 23, 20-28.	2.4	449
59	Experimental studies of vortex disconnection and connection at a free surface. Journal of Fluid Mechanics, 1996, 321, 59-86.	3.4	56
60	Current status of flow convergence for clinical applications: Is it a leaning tower of 'PISA'? Journal of the American College of Cardiology, 1996, 27, 504-509.	2.8	96
61	Three-dimensional reconstruction of color doppler flow convergence regions and regurgitant jets: An in vitro quantitative study. Journal of the American College of Cardiology, 1996, 27, 1511-1518.	2.8	68
62	The role of streamwise vorticity in the near-field entrainment of round jets. Journal of Fluid Mechanics, 1992, 245, 643.	3.4	432
63	Digital particle image velocimetry. Experiments in Fluids, 1991, 10, 181-193.	2.4	1,658
64	Fluctuations and transport in a stirred fluid with a mean gradient. Physical Review Letters, 1991, 67, 3507-3510.	7.8	99
65	A liquid film (soap film) tunnel to study two-dimensional laminar and turbulent shear flows. Physica D: Nonlinear Phenomena, 1989, 37, 406-416.	2.8	139
66	Confocal Laser Tomographic Analysis of the Retina in Eyes with Macular Hole Formation and Other Focal Macular Diseases. American Journal of Ophthalmology, 1989, 108, 277-287.	3.3	82
67	Ordered and chaotic vortex streets behind circular cylinders at low Reynolds numbers. Journal of Fluid Mechanics, 1987, 174, 113-133.	3.4	100