Ian Howard

List of Publications by Year in descending order

37 papers	1,544 citations	361045 20 h-index	433756 31 g-index
37 all docs	37 docs citations	37 times ranked	1104 citing authors

#	Article	IF	Citations
1	Dynamic modelling of the gear system under non-stationary conditions using the iterative convergence of the tooth mesh stiffness. Engineering Failure Analysis, 2022, 131, 105908.	1.8	11
2	Wind Turbine Pitch Actuator Regulation for Efficient and Reliable Energy Conversion: A Fault-Tolerant Constrained Control Solution. Actuators, 2022, 11, 102.	1.2	2
3	Decoupling Adaptive Sliding Mode Observer Design for Wind Turbines Subject to Simultaneous Faults in Sensors and Actuators. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 837-847.	8.5	35
4	An integrated interval type-2 fuzzy sets and multiplicative half quadratic programming-based MCDM framework for calculating aggregated risk ranking results of failure modes in FMECA. Chemical Engineering Research and Design, 2021, 150, 194-222.	2.7	27
5	Is wave energy untapped potential?. International Journal of Mechanical Sciences, 2021, 205, 106544.	3.6	22
6	Bayesian Fault Probability Estimation: Application in Wind Turbine Drivetrain Sensor Fault Detection. Asian Journal of Control, 2020, 22, 624-647.	1.9	8
7	Optimal robotâ€environment interaction using inverse differential Riccati equation. Asian Journal of Control, 2020, 22, 1401-1410.	1.9	1
8	An integrated approach for fuzzy failure modes and effects analysis using fuzzy AHP and fuzzy MAIRCA. Engineering Failure Analysis, 2020, 108, 104195.	1.8	114
9	A novel hybrid multi-criteria group decision making approach for failure mode and effect analysis: An essential requirement for sustainable manufacturing. Sustainable Production and Consumption, 2020, 21, 14-32.	5.7	56
10	The diagnostic analysis of the fault coupling effects in planet bearing. Engineering Failure Analysis, 2020, 108, 104266.	1.8	6
11	The detection of multiple faults in a Bayesian setting using dynamic programming approaches. Signal Processing, 2020, 175, 107618.	2.1	0
12	Advancements of wave energy converters based on power take off (PTO) systems: A review. Ocean Engineering, 2020, 204, 107248.	1.9	171
13	The diagnostic analysis of the planet bearing faults using the torsional vibration signal. Mechanical Systems and Signal Processing, 2019, 134, 106304.	4.4	24
14	Vibration response from the planetary gear with flexible ring gear. International Journal of Powertrains, 2019, 8, 3.	0.1	7
15	Fault-Tolerant Neuro Adaptive Constrained Control of Wind Turbines for Power Regulation with Uncertain Wind Speed Variation. Energies, 2019, 12, 4712.	1.6	9
16	Reliability improvement of wind turbine power generation using model-based fault detection and fault tolerant control: A review. Renewable Energy, 2019, 135, 877-896.	4.3	124
17	Backstepping Nussbaum gain dynamic surface control for a class of input and state constrained systems with actuator faults. Information Sciences, 2019, 482, 27-46.	4.0	36
18	Neural impedance adaption for assistive humanâ€“robot interaction. Neurocomputing, 2018, 290, 50-59.	3.5	24

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19	Neural adaptive tracking control for an uncertain robot manipulator with time-varying joint space constraints. Mechanical Systems and Signal Processing, 2018, 112, 44-60.	4.4	47
20	Neural network adaptive control design for robot manipulators under velocity constraints. Journal of the Franklin Institute, 2018, 355, 693-713.	1.9	28
21	Torsional vibration signal analysis as a diagnostic tool for planetary gear fault detection. Mechanical Systems and Signal Processing, 2018, 100, 706-728.	4.4	65
22	Sensor fault detection and isolation: a game theoretic approach. International Journal of Systems Science, 2018, , 1-21.	3.7	1
23	Adaptive PID Control of Wind Turbines for Power Regulation With Unknown Control Direction and Actuator Faults. IEEE Access, 2018, 6, 37464-37479.	2.6	48
24	Bayesian Sensor Fault Detection in a Markov Jump System. Asian Journal of Control, 2017, 19, 1465-1481.	1.9	18
25	Power maximization of variable-speed variable-pitch wind turbines using passive adaptive neural fault tolerant control. Frontiers of Mechanical Engineering, 2017, 12, 377-388.	2.5	22
26	Optimum efficiency control of a wind turbine with unknown desired trajectory and actuator faults. Journal of Renewable and Sustainable Energy, 2017, 9, 063305.	0.8	12
27	Constrained control of wind turbines for power regulation in full load operation. , 2017, , .		4
28	A neuro-adaptive maximum power tracking control of variable speed wind turbines with actuator faults. , 2017, , .		4
29	Dynamic modelling of flexibly supported gears using iterative convergence of tooth mesh stiffness. Mechanical Systems and Signal Processing, 2016, 80, 460-481.	4.4	26
30	The spur planetary gear torsional stiffness and its crack sensitivity under quasi-static conditions. Engineering Failure Analysis, 2016, 63, 106-120.	1.8	31
31	Ring-Planet Mesh Stiffness Study With Different Boundary Conditions and Crack Locations. , 2015, , .		1
32	Calculation of the Combined Torsional Mesh Stiffness of Spur Gears with Two- and Three-Dimensional Parametrical FE Models. Strojniski Vestnik/Journal of Mechanical Engineering, 2011, 57, 810-818.	0.6	87
33	Comparison of localised spalling and crack damage from dynamic modelling of spur gear vibrations. Mechanical Systems and Signal Processing, 2006, 20, 332-349.	4.4	148
34	Finite Element Analysis of High Contact Ratio Spur Gears in Mesh. Journal of Tribology, 2005, 127, 469-483.	1.0	89
35	The Dynamic Modeling of Multiple Pairs of Spur Gears in Mesh, Including Friction and Geometrical Errors. International Journal of Rotating Machinery, 2003, 9, 437-442.	0.8	30
36	THE DYNAMIC MODELLING OF A SPUR GEAR IN MESH INCLUDING FRICTION AND A CRACK. Mechanical Systems and Signal Processing, 2001, 15, 831-853.	4.4	205

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37	The Dynamic Modelling of Multiple Pairs of Spur Gears in Mesh Including Friction. , 2001, , 841-848.		1