Abhinav Saxena

List of Publications by Year
in descending order

21 papers	1,574 citations	840776 11 h-index	1199594 12 g-index
21 all docs	21 docs citations	21 times ranked	1268 citing authors

#	Article	IF	Citations
1	Prognostics in Battery Health Management. IEEE Instrumentation and Measurement Magazine, 2008, 11, 33-40.	1.6	415
2	Metrics for evaluating performance of prognostic techniques. , 2008, , .		245
3	Modeling, Detection, and Disambiguation of Sensor Faults for Aerospace Applications. IEEE Sensors Journal, 2009, 9, 1907-1917.	4.7	155
4	A diagnostic approach for electro-mechanical actuators in aerospace systems. , 2009, , .		94
5	In-situ fatigue life prognosis for composite laminates based on stiffness degradation. Composite Structures, 2015, 132, 155-165.	5.8	89
6	A multi-feature integration method for fatigue crack detection and crack length estimation in riveted lap joints using Lamb waves. Smart Materials and Structures, 2013, 22, 105007.	3.5	76
7	Evaluating algorithm performance metrics tailored for prognostics. , 2009, , .		71
8	A knowledge-based system approach for sensor fault modeling, detection and mitigation. Expert Systems With Applications, 2012, 39, 10977-10989.	7.6	71
9	Condition-based prediction of time-dependent reliability in composites. Reliability Engineering and System Safety, 2015, 142, 134-147.	8.9	57
10	Prognostic Health-Management System Development for Electromechanical Actuators. Journal of Aerospace Information Systems, 2015, 12, 329-344.	1.4	57
11	A novel Bayesian imaging method for probabilistic delamination detection of composite materials. Smart Materials and Structures, 2013, 22, 125019.	3.5	42
12	A Bayesian framework for fatigue life prediction of composite laminates under co-existing matrix cracks and delamination. Composite Structures, 2018, 187, 58-70.	5.8	41
13	Distributed prognostic health management with gaussian process regression. , 2010, , .		39
14	Rolling element bearing feature extraction and anomaly detection based on vibration monitoring. , 2008, , .		37
15	Probabilistic fatigue damage prognosis of lap joint using Bayesian updating. Journal of Intelligent Material Systems and Structures, 2015, 26, 965-979.	2.5	28
16	Experimental Validation of a Prognostic Health Management System for Electro-Mechanical Actuators. , 2011, , .		19
17	An approach to fault diagnosis of helicopter planetary gears. , 0, , .		12
18	Integrated experimental and numerical investigation for fatigue damage diagnosis in composite plates. Structural Health Monitoring, 2014, 13, 537-547.	7.5	11

#	Article	IF	Citations
19	An investigation of strain energy release rate models for real-time prognosis of fiber-reinforced laminates. Composite Structures, 2017, 165, 99-114.	5.8	11
20	Simulation-based Design and Validation of Automated Contingency Management for Propulsion Systems. , 2007, , .		2
21	Evaluation of Multiple Damage-Mode Models for Prognostics of Carbon Fiber-reinforced Polymers. , 0, , .		2