

# Yeh-Liang Hsu

## List of Publications by Year in descending order

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36  
papers

1,507  
citations

567281

15  
h-index

477307

29  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationship between a pressure redistributing foam mattress and pressure injuries: An observational prospective cohort study. PLoS ONE, 2020, 15, e0241276.	2.5	8
2	Machine Learning Based Sleep-Status Discrimination Using a Motion Sensing Mattress. , 2019, , .		3
3	Novel Sleep Apnea Detection Based on UWB Artificial Intelligence Mattress. , 2019, , .		5
4	The use of psychophysiological methods in the evaluation of mental commitment robots for elderly care. Journal of Industrial and Production Engineering, 2015, 32, 449-456.	3.1	5
5	Development of a bed-centered telehealth system based on a motion-sensing mattress. Journal of Clinical Gerontology and Geriatrics, 2015, 6, 1-8.	0.7	20
6	Telepresence Robots for Medical and Homecare Applications. , 2015, , 725-735.		6
7	ASSESSING ABNORMAL GAITS OF PARKINSON'S DISEASE PATIENTS USING A WEARABLE MOTION DETECTOR. Biomedical Engineering - Applications, Basis and Communications, 2014, 26, 1450031.	0.6	2
8	Development of a Bed-Centered Telehealth System Based on a Motion-Sensing Mattress. , 2013, , .		3
9	Remote monitoring and assessment of daily activities in the home environment. Journal of Clinical Gerontology and Geriatrics, 2012, 3, 97-104.	0.7	53
10	Real-time gait cycle parameters recognition using a wearable motion detector. , 2011, , .		10
11	Real-Time Gait Cycle Parameter Recognition Using a Wearable Accelerometry System. Sensors, 2011, 11, 7314-7326.	3.8	102
12	A Review of Accelerometry-Based Wearable Motion Detectors for Physical Activity Monitoring. Sensors, 2010, 10, 7772-7788.	3.8	808
13	DEVELOPMENT OF A PROTOTYPING SYSTEM FOR CUSTOM-CONTOURED FOAM CUSHION USING THE PRESSURE MAPPING METHOD. Biomedical Engineering - Applications, Basis and Communications, 2009, 21, 9-16.	0.6	2
14	Development of a Wearable Motion Detector for Telemonitoring and Real-Time Identification of Physical Activity. Telemedicine Journal and E-Health, 2009, 15, 62-72.	2.8	30
15	Development of a Portable Device for Telemonitoring of Physical Activities During Sleep. Telemedicine Journal and E-Health, 2008, 14, 1044-1056.	2.8	12
16	DEVELOPMENT OF A PARALLEL SURGICAL ROBOT WITH AUTOMATIC BONE DRILLING CARRIAGE FOR STEREOTACTIC NEUROSURGERY. Biomedical Engineering - Applications, Basis and Communications, 2007, 19, 269-277.	0.6	18
17	An integrated process for designing around existing patents through the theory of inventive problem-solving. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 109-122.	2.4	21
18	Developing a fuzzy proportionalâ€“derivative controller optimization engine for engineering design optimization problems. Engineering Optimization, 2007, 39, 679-700.	2.6	52

#	ARTICLE	IF	CITATIONS
19	Developing an automated design modification system for aluminium disc wheels. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2007, 221, 447-456.	2.4	1
20	Development of A Decentralized Telehomecare Monitoring System. Telemedicine Journal and E-Health, 2007, 13, 69-78.	2.8	18
21	Computer Simulation of Casting Process of Aluminium Wheels - A Case Study. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 203-211.	2.4	10
22	Interpreting three-dimensional structural topology optimization results. Computers and Structures, 2005, 83, 327-337.	4.4	61
23	Generalization of two- and three-dimensional structural topology optimization. Engineering Optimization, 2005, 37, 83-102.	2.6	16
24	DEVELOPMENT OF A PORTABLE DEVICE FOR HOME MONITORING OF SNORING. Biomedical Engineering - Applications, Basis and Communications, 2005, 17, 176-180.	0.6	8
25	A fuzzy proportional-derivative controller for engineering optimization problems using an optimality criteria approach. Engineering Optimization, 2005, 37, 649-661.	2.6	4
26	PREDICTION OF FATIGUE FAILURES OF ALUMINUM DISC WHEELS USING THE FAILURE PROBABILITY CONTOUR BASED ON HISTORICAL TEST DATA. Journal of the Chinese Institute of Industrial Engineers, 2004, 21, 551-558.	0.5	8
27	DESIGN AND COMFORT EVALUATION OF A NOVEL LOCOMOTION DEVICE FOR TRAINING OVERHEAD TRAVELING CRANE OPERATORS IN A VIRTUAL ENVIRONMENT. Journal of the Chinese Institute of Industrial Engineers, 2003, 20, 62-70.	0.5	0
28	A sequential approximation method using neural networks for engineering design optimization problems. Engineering Optimization, 2003, 35, 489-511.	2.6	30
29	Shape Optimal Design of Contact Springs of Electronic Connectors. Journal of Electronic Packaging, Transactions of the ASME, 2002, 124, 178-183.	1.8	12
30	A Sequential Approximation Method Using Neural Networks for Nonlinear Discrete-Variable Optimization with Implicit Constraints.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2001, 44, 103-112.	0.3	6
31	Weight reduction of aluminum disc wheels under fatigue constraints using a sequential neural network approximation method. Computers in Industry, 2001, 46, 167-179.	9.9	23
32	Interpreting results from topology optimization using density contours. Computers and Structures, 2001, 79, 1049-1058.	4.4	54
33	A MODULAR MECHATRONIC SYSTEM FOR AUTOMATIC BONE DRILLING. Biomedical Engineering - Applications, Basis and Communications, 2001, 13, 168-174.	0.6	30
34	Notes on Monotonicity Principles. Journal of Mechanical Design, Transactions of the ASME, 1997, 119, 327-330.	2.9	0
35	THE EXPLICIT APPROXIMATION METHOD FOR DESIGN OPTIMIZATION PROBLEMS WITH IMPLICIT CONSTRAINTS. Engineering Optimization, 1996, 27, 21-42.	2.6	2
36	A review of structural shape optimization. Computers in Industry, 1994, 25, 3-13.	9.9	64