

Hsien-Tsai Wu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Machine learning prediction of future peripheral neuropathy in type 2 diabetics with percussion entropy and body mass indices. <i>Biocybernetics and Biomedical Engineering</i> , 2021, 41, 1140-1149.	3.3	8
2	Reactive Hyperemia-Triggered Wrist Pulse Analysis for Early Monitoring of Young Men with High Atherosclerotic Risk. <i>Diagnostics</i> , 2021, 11, 1918.	1.3	2
3	A First Step towards a Comprehensive Approach to Harmonic Analysis of Synchronous Peripheral Volume Pulses: A Proof-of-Concept Study. <i>Journal of Personalized Medicine</i> , 2021, 11, 1263.	1.1	3
4	Prognosis of Diabetic Peripheral Neuropathy via Decomposed Digital Volume Pulse from the Fingertip. <i>Entropy</i> , 2020, 22, 754.	1.1	7
5	Percussion Entropy Analysis of Synchronized ECG and PPG Signals as a Prognostic Indicator for Future Peripheral Neuropathy in Type 2 Diabetic Subjects. <i>Diagnostics</i> , 2020, 10, 32.	1.3	12
6	Compatibility of pulse–pulse intervals with R–R intervals in assessing cardiac autonomic function and its relation to risks of atherosclerosis. <i>Tzu Chi Medical Journal</i> , 2020, 32, 41.	0.4	2
7	New Application of an Instantaneous Frequency Parameter for Assessing Far Infrared Fabric Effects in Aged Subjects. <i>Electronics (Switzerland)</i> , 2020, 9, 138.	1.8	3
8	Assessment of Diabetic Autonomic Nervous Dysfunction with a Novel Percussion Entropy Approach. <i>Complexity</i> , 2019, 2019, 1-11.	0.9	10
9	Digital Volume Pulse Measured at the Fingertip as an Indicator of Diabetic Peripheral Neuropathy in the Aged and Diabetic. <i>Entropy</i> , 2019, 21, 1229.	1.1	11
10	Application of a Speedy Modified Entropy Method in Assessing the Complexity of Baroreflex Sensitivity for Age-Controlled Healthy and Diabetic Subjects. <i>Entropy</i> , 2019, 21, 894.	1.1	9
11	In vivo assessment of endothelial function in small animals using an infrared pulse detector. <i>Tzu Chi Medical Journal</i> , 2019, 31, 217.	0.4	1
12	Assessment of Subtle Changes in Diabetes-Associated Arteriosclerosis using Photoplethysmographic Pulse Wave from Index Finger. <i>Journal of Medical Systems</i> , 2018, 42, 43.	2.2	29
13	Application of multiscale Poincaré short-time computation versus multiscale entropy in analyzing fingertip photoplethysmogram amplitudes to differentiate diabetic from non-diabetic subjects. <i>Computer Methods and Programs in Biomedicine</i> , 2018, 166, 115-121.	2.6	4
14	Instantaneous frequency from Hilbert-Huang transformation of digital volume pulse as indicator of diabetes and arterial stiffness in upper-middle-aged subjects. <i>Scientific Reports</i> , 2018, 8, 15771.	1.6	11
15	Combination of R-R Interval and Crest Time in Assessing Complexity Using Multiscale Cross-Approximate Entropy in Normal and Diabetic Subjects. <i>Entropy</i> , 2018, 20, 497.	1.1	16
16	Assessment of Vascular Health With Photoplethysmographic Waveforms From the Fingertip. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 382-386.	3.9	9
17	Difference in bilateral digital volume pulse as a novel non-invasive approach to assessing arteriosclerosis in aged and diabetic subjects: A preliminary study. <i>Diabetes and Vascular Disease Research</i> , 2017, 14, 254-257.	0.9	10
18	Multiscale Cross-Approximate Entropy Analysis of Bilateral Fingertips Photoplethysmographic Pulse Amplitudes among Middle-to-Old Aged Individuals with or without Type 2 Diabetes. <i>Entropy</i> , 2017, 19, 145.	1.1	10

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19	Effects of Combined Far-Infrared Radiation and Acupuncture at ST36 on Peripheral Blood Perfusion and Autonomic Activities. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-7.	0.5	6
20	Glycemic Control, Hand Activity, and Complexity of Biological Signals in Diabetes Mellitus. Complexity, 2017, 2017, 1-9.	0.9	0
21	Discrepancies between Conventional Multiscale Entropy and Modified Short-Time Multiscale Entropy of Photoplethysmographic Pulse Signals in Middle- and Old- Aged Individuals with or without Diabetes. Entropy, 2017, 19, 132.	1.1	10
22	Application of Short-Time MSE in Assessing Impact of Acupuncture on Peripheral Blood Flow and Autonomic Activities in Normal and Overweight Subjects. Journal of Medical and Biological Engineering, 2016, 36, 386-395.	1.0	9
23	Vibration signals of snoring as a simple severity predictor for obstructive sleep apnea. Clinical Respiratory Journal, 2016, 10, 440-448.	0.6	6
24	Multiscale entropic assessment of autonomic dysfunction in patients with obstructive sleep apnea and therapeutic impact of continuous positive airway pressure treatment. Sleep Medicine, 2016, 20, 12-17.	0.8	12
25	Multiscale entropy analysis of surface electromyographic signals as a prognostic indicator for subtle functional impairment of urethral sphincter. , 2015, , .		0
26	Multiscale Entropy Analysis of Surface Electromyographic Signals from the Urethral Sphincter as a Prognostic Indicator for Surgical Candidates with Primary Bladder Neck Obstruction. Entropy, 2015, 17, 8089-8098.	1.1	5
27	Multiscale Entropy Analysis of Heart Rate Variability for Assessing the Severity of Sleep Disordered Breathing. Entropy, 2015, 17, 231-243.	1.1	30
28	Application of multiscale entropy in arterial waveform contour analysis in healthy and diabetic subjects. Medical and Biological Engineering and Computing, 2015, 53, 89-98.	1.6	7
29	Application of a Modified Entropy Computational Method in Assessing the Complexity of Pulse Wave Velocity Signals in Healthy and Diabetic Subjects. Entropy, 2014, 16, 4032-4043.	1.1	25
30	Effects of First-Time Overnight CPAP Therapy for Increasing the Complexity of the Patient's Physiological System. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-7.	0.7	3
31	Assessment of autonomic dysfunction in patients with type 2 diabetes using reactive hyperemia. Journal of Theoretical Biology, 2013, 330, 9-17.	0.8	14
32	Simultaneous assessment of autonomic nervous and vascular endothelial functions in a rat model. Biomedizinische Technik, 2013, 58, 205-12.	0.9	4
33	Novel Application of a Multiscale Entropy Index as a Sensitive Tool for Detecting Subtle Vascular Abnormalities in the Aged and Diabetic. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-8.	0.7	6
34	Multiscale Cross-Approximate Entropy Analysis as a Measurement of Complexity between ECG R-R Interval and PPG Pulse Amplitude Series among the Normal and Diabetic Subjects. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-7.	0.7	25
35	Multiscale Cross-Approximate Entropy Analysis as a Measure of Complexity among the Aged and Diabetic. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-7.	0.7	22
36	Six-channel ECG-based pulse wave velocity for assessing whole-body arterial stiffness. Blood Pressure, 2012, 21, 167-176.	0.7	15

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37	Poincaré plot indexes of pulse rate variability capture dynamic adaptations after reactive hyperemia in type 2 diabetic patients. , 2012, , .		0
38	Novel application of multiscale entropy in assessment of atherosclerosis in aged and diabetic subjects. , 2012, , .		0
39	A Simplified Approach to Assessing Penile Endothelial Function in Young Individuals at Risk of Erectile Dysfunction. Journal of Andrology, 2012, 33, 1254-1262.	2.0	1
40	Penile Arterial Waveform Analyzing System for Early Identification of Young Adults with High Risk of Erectile Dysfunction. Journal of Sexual Medicine, 2012, 9, 1094-1105.	0.3	3
41	Arterial Waveforms Measured at the Wrist as Indicators of Diabetic Endothelial Dysfunction in the Elderly. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 162-169.	2.4	28
42	Ensemble Empirical Mode Decomposition for atherosclerosis in high-risk subjects. , 2011, , .		0
43	Multiscale entropy indicates vascular abnormalities in the aged. , 2011, , .		0
44	Arterial Stiffness Using Radial Arterial Waveforms Measured at the Wrist as an Indicator of Diabetic Control in the Elderly. IEEE Transactions on Biomedical Engineering, 2011, 58, 243-252.	2.5	54
45	Measuring Pulse Wave Velocity Using ECG and Photoplethysmography. Journal of Medical Systems, 2011, 35, 771-777.	2.2	37
46	Penile Arterial Waveform Analyzer for Assessing Penile Vascular Function in Young Adults. Annals of Biomedical Engineering, 2011, 39, 2857-2868.	1.3	4
47	Multiscale Entropy Analysis of Pulse Wave Velocity for Assessing Atherosclerosis in the Aged and Diabetic. IEEE Transactions on Biomedical Engineering, 2011, 58, 2978-2981.	2.5	46
48	Predicting arterial stiffness with the aid of ensemble empirical mode decomposition(EEMD) algorithm. , 2010, , .		0
49	Linguistic analysis of the arterial pressure signals using frequency and rank order statistics. , 2010, , .		1
50	Novel application of parameters in waveform contour analysis for assessing arterial stiffness in aged and atherosclerotic subjects. Atherosclerosis, 2010, 213, 173-177.	0.4	35
51	Endothelium function assessment with radial pulse wave signals. , 2009, 2009, 3035-8.		3
52	A Reliable Multi-Channel Measurement Based on ECG for Atherosclerosis Assessment. , 2009, , .		0
53	A Non-Invasive Arterial Stiffness Assessment Instrument for Homecare. , 2008, , .		0
54	A non-invasive assessment for endothelial function of small animals. , 2008, 2008, 5918-21.		1

#	ARTICLE	IF	CITATIONS
55	Digital Pulse Volume Based Endothelial Function Detector for Early Stage Formation of Atherosclerosis. , 2008, , .		3
56	Development of Easy Operating Arterial Stiffness Assessment Instrument for Homecare. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5869-72.	0.5	4
57	Association of Risk Factors With Increased Pulse Wave Velocity Detected by a Novel Method Using Dual-Channel Photoplethysmography. American Journal of Hypertension, 2005, 18, 1118-1122.	1.0	57