Geoffrey H Tison

List of Publications by Year
in descending order

42 papers	4,133 citations	430874 18 h-index	289244 40 g-index
47 all docs	47 docs citations	47 times ranked	6037 citing authors

#	Article	IF	Citations
1	Cardiologist-level arrhythmia detection and classification in ambulatory electrocardiograms using a deep neural network. Nature Medicine, 2019, 25, 65-69.	30.7	1,633
2	Worldwide Effect of COVID-19 on Physical Activity: A Descriptive Study. Annals of Internal Medicine, 2020, 173, 767-770.	3.9	597
3	Fully Automated Echocardiogram Interpretation in Clinical Practice. Circulation, 2018, 138, 1623-1635.	1.6	563
4	Passive Detection of Atrial Fibrillation Using a Commercially Available Smartwatch. JAMA Cardiology, 2018, 3, 409.	6.1	357
5	Proposed Requirements for Cardiovascular Imaging-Related Machine Learning Evaluation (PRIME): A Checklist. JACC: Cardiovascular Imaging, 2020, 13, 2017-2035.	5.3	123
6	Automated and Interpretable Patient ECG Profiles for Disease Detection, Tracking, and Discovery. Circulation: Cardiovascular Quality and Outcomes, 2019, 12, e005289.	2.2	111
7	Real-world heart rate norms in the Health eHeart study. Npj Digital Medicine, 2019, 2, 58.	10.9	90
8	Influences of general and traditional Chinese beliefs on the decision to donate blood among employerâ€organized and volunteer donors in Beijing, China. Transfusion, 2007, 47, 1871-1879.	1.6	66
9	Multisite extracoronary calcification indicates increased risk of coronary heart disease and all-cause mortality: The Multi-Ethnic Study of Atherosclerosis. Journal of Cardiovascular Computed Tomography, 2015, 9, 406-414.	1.3	61
10	Performance of a Convolutional Neural Network and Explainability Technique for 12-Lead Electrocardiogram Interpretation. JAMA Cardiology, 2021, 6, 1285.	6.1	60
11	A digital biomarker of diabetes from smartphone-based vascular signals. Nature Medicine, 2020, 26, 1576-1582.	30.7	58
12	Perceptions, Information Sources, and Behavior Regarding Alcohol and Heart Health. American Journal of Cardiology, 2015, 116, 642-646.	1.6	51
13	Atrial fibrillation detection from raw photoplethysmography waveforms: A deep learning application. Heart Rhythm O2, 2020, 1, 3-9.	1.7	35
14	Identifying heart failure using EMR-based algorithms. International Journal of Medical Informatics, 2018, 120, 1-7.	3.3	28
15	Physical activity and atrial fibrillation: Data from wearable fitness trackers. Heart Rhythm, 2020, 17, 842-846.	0.7	24
16	Relation of Anthropometric Obesity and Computed Tomography Measured Nonalcoholic Fatty Liver Disease (from the Multiethnic Study of Atherosclerosis). American Journal of Cardiology, 2015, 116, 541-546.	1.6	22
17	Artificial Intelligence in Cardiovascular Imaging. Methodist DeBakey Cardiovascular Journal, 2021, 16, 138.	1.0	22
18	Usefulness of Baseline Obesity to Predict Development of a High Ankle Brachial Index (from the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.6	20

#	Article	IF	Citations
19	Thoracic extra-coronary calcification for the prediction of stroke: TheÂMulti-Ethnic Study of Atherosclerosis. Atherosclerosis, 2017, 267, 61-67.	0.8	20
20	Comparison of the Physical Activity Measured by a Consumer Wearable Activity Tracker and That Measured by Self-Report: Cross-Sectional Analysis of the Health eHeart Study. JMIR MHealth and UHealth, 2020, 8, e22090.	3.7	16
21	Assessment of Disease Status and Treatment Response With Artificial Intelligenceâ˜Enhanced Electrocardiography in Obstructive Hypertrophic Cardiomyopathy. Journal of the American College of Cardiology, 2022, 79, 1032-1034.	2.8	16
22	The relationship of insulin resistance and extracoronary calcification in the multi-ethnic study of atherosclerosis. Atherosclerosis, 2011, 218, 507-510.	0.8	14
23	Association of Machine Learningâ€“Derived Phenogroupings of Echocardiographic Variables with Heart Failure in Stable Coronary Artery Disease: The Heart and Soul Study. Journal of the American Society of Echocardiography, 2020, 33, 322-331.e1.	2.8	14
24	Atherosclerosis imaging in multiple vascular bedsâ€”Enough heterogeneity to improve risk prediction?. Atherosclerosis, 2011, 214, 261-263.	0.8	13
25	Machine learning prediction of blood alcohol concentration: a digital signature of smart-breathalyzer behavior. Npj Digital Medicine, 2021, 4, 74.	10.9	10
26	Will the smartphone become a useful tool to promote physical activity?. The Lancet Digital Health, 2019, 1, e322-e323.	12.3	9
27	Predictors of incident SARS-CoV-2 infections in an international prospective cohort study. BMJ Open, 2021, 11, e052025.	1.9	9
28	Predicting incident heart failure in women with machine learning: The Women's Health Initiative Cohort. Canadian Journal of Cardiology, 2021, 37, 1708-1714.	1.7	8
29	Assessment of Accelerometer-Based Physical Activity During the 2017-2018 California Wildfire Seasons. JAMA Network Open, 2020, 3, e2018116.	5.9	7
30	Temporal patterns of self-weighing behavior and weight changes assessed by consumer purchased scales in the Health eHeart Study. Journal of Behavioral Medicine, 2019, 42, 873-882.	2.1	6
31	The Rise of Open-Sourced Machine Learning in Small and Imbalanced Datasets: Predicting In-Stent Restenosis. Canadian Journal of Cardiology, 2020, 36, 1574-1576.	1.7	6
32	Predictors of incident viral symptoms ascertained in the era of COVID-19. PLoS ONE, 2021, 16, e0253120.	2.5	6
33	Echocardiographic determination of pulmonary arterial capacitance. International Journal of Cardiovascular Imaging, 2019, 35, 1581-1586.	1.5	5
34	Echocardiographic assessment of pulmonary arterial capacitance predicts mortality in pulmonary hypertension. Journal of Cardiology, 2021, 77, 279-284.	1.9	5
35	Finding New Meaning in Everyday Electrocardiogramsâ€”Leveraging Deep Learning to Expand Our Diagnostic Toolkit. JAMA Cardiology, 2021, 6, 493.	6.1	3
36	Measurement of brachial artery endothelial function using a standard blood pressure cuff. Physiological Measurement, 2015, 36, 2247-2268.	2.1	1

#	Article	IF	Citations
37	Pulmonary arterial capacitance predicts outcomes in patients with pulmonary hypertension independent of race/ethnicity, sex, and etiology. Respiratory Medicine, 2020, 163, 105891.	2.9	1
38	Leveraging innovative technology to generate drug response phenotypes for the advancement of biomarkerâ€driven precision dosing. Clinical and Translational Science, 2021, 14, 784-790.	3.1	1
39	UNDERSTANDING SOCIAL MEDIA USAGE RELATED TO CARDIOLOGY: UNDERLYING MOTIVATION AND UNTAPPED OPPORTUNITIES. Journal of the American College of Cardiology, 2017, 69, 2531.	2.8	0
40	B-PO01-088 LOCALIZATION OF OUTFLOW TRACT PREMATURE VENTRICULAR BEATS OR VENTRICULAR TACHYCARDIA IN SURFACE ELECTROCARDIOGRAMS USING A CONVOLUTIONAL NEURAL NETWORK. Heart Rhythm, 2021, 18, S85-S86.	0.7	0
41	B-IN02-07 LOCALIZATION OF OUTFLOW TRACT PREMATUREÂVENTRICULAR BEATS OR VENTRICULARÂTACHYCARDIA IN SURFACE ELECTROCARDIOGRAMS USING A CONVOLUTIONAL NEURAL NETWORK. Heart Rhythm, 2021, 18, S170-S171.	0.7	0
42	Using machine learning to uncover heterogeneity of beta blocker response in heart failure. Cell Reports Medicine, 2022, 3, 100504.	6.5	0