

# Akinori Ueno

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

727  
citations

840776

11  
h-index

610901

24  
g-index

70  
all docs

70  
docs citations

70  
times ranked

809  
citing authors

#	ARTICLE	IF	CITATIONS
1	Capacitive Sensing of Electrocardiographic Potential Through Cloth From the Dorsal Surface of the Body in a Supine Position: A Preliminary Study. IEEE Transactions on Biomedical Engineering, 2007, 54, 759-766.	4.2	155
2	Integrated Circuits and Electrode Interfaces for Noninvasive Physiological Monitoring. IEEE Transactions on Biomedical Engineering, 2014, 61, 1522-1537.	4.2	93
3	Detecting deteriorated vigilance using percentage of eyelid closure time during behavioral maintenance of wakefulness tests. International Journal of Psychophysiology, 2011, 82, 269-274.	1.0	77
4	An Application of Capacitive Electrode for Detecting Electrocardiogram of Neonates and Infants. , 2006, 2006, 916-9.		40
5	Noncontact In-Bed Measurements of Physiological and Behavioral Signals Using an Integrated Fabric-Sheet Sensing Scheme. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 618-630.	6.3	38
6	Re-evaluation of tropicamide in the pupillary response test for Alzheimer's disease. Neurobiology of Aging, 2003, 24, 789-796.	3.1	34
7	Development of a Wireless Capacitive Sensor for Ambulatory ECG Monitoring over Clothes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5728-31.	0.5	26
8	Non-Contact Simultaneous Measurements of Electrocardiogram and Respiratory Movements Using Capacitive Sheet Electrodes. Advanced Biomedical Engineering, 2017, 6, 28-36.	0.6	23
9	Detection of Electrocardiogram by Electrodes with Fabrics Using Capacitive Coupling. IEEE Transactions on Electronics, Information and Systems, 2004, 124, 1664-1671.	0.2	18
10	Unconstrained monitoring of ECG and respiratory variation in infants with underwear during sleep using a bed-sheet electrode unit. , 2008, 2008, 2329-32.		17
11	Multi-layered fabric electrode for movement artifact reduction in capacitive ECG measurement. , 2013, 2013, 555-8.		16
12	A pharmacologic approach to vagal nerve stimulation prevents mesenteric lymph toxicity after hemorrhagic shock. Journal of Trauma and Acute Care Surgery, 2015, 78, 52-59.	2.1	15
13	Electrical stimulation of the vagus nerve improves intestinal blood flow after trauma and hemorrhagic shock. Surgery, 2020, 167, 638-645.	1.9	13
14	Underwater Electromyographic Measurement Using a Waterproof Insulated Electrode. Advanced Biomedical Engineering, 2012, 1, 81-88.	0.6	12
15	Development of a Compact Wireless Laplacian Electrode Module for Electromyograms and Its Human Interface Applications. Sensors, 2013, 13, 2368-2383.	3.8	12
16	A Primary Study of Indirect ECG Monitor Embedded in a Bed for Home Health Care. IEEE Transactions on Electronics, Information and Systems, 2007, 127, 1792-1799.	0.2	11
17	A Novel Analog Front End with Voltage-Dependent Input Impedance and Bandpass Amplification for Capacitive Biopotential Measurements. Sensors, 2020, 20, 2476.	3.8	10
18	Dynamics of saccadic eye movement depending on diurnal variation in human alertness. Systems and Computers in Japan, 2002, 33, 95-103.	0.2	9

#	ARTICLE	IF	CITATIONS
19	A Wearable capacitive heart-rate monitor for controlling electrically assisted bicycle. , 2009, , .		9
20	A Capacitive Sensor System for Measuring Laplacian Electromyogram through Cloth: A Pilot Study. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5732-5.	0.5	8
21	Evaluation of blood flow velocity envelope in common carotid artery for reference data. Biomedical Signal Processing and Control, 2011, 6, 209-215.	5.7	8
22	A Noncontact Measurement of Saccadic Eye Movement with Two High-speed Cameras. , 2006, 2006, 5583-6.		7
23	Non-contact measurements of diaphragm electromyogram, electrocardiogram and respiratory variations with sheet-type fabric electrodes for neonatal monitoring. , 2018, , .		7
24	Non-Contact Capacitive Ballistocardiogram Measurements Using In-Bed Fabric-Sheet Electrode for Blood Pressure Estimation. , 2019, 2019, 1155-1158.		7
25	Non-Contact Measurements of Electrocardiogram and Cough-Associated Electromyogram from the Neck Using In-Pillow Common Cloth Electrodes: A Proof-of-Concept Study. Sensors, 2021, 21, 812.	3.8	7
26	Bootstrapped Non-Inverting Front-End Amplifier for Capacitive Electrocardiogram Measurement. , 2018, , .		6
27	Low invasive measurement of electrocardiogram for newborns and infants. , 0, , .		5
28	Effect of Gaze and Auditory Stimulation on Body Sway Direction during Standing. IEEJ Transactions on Electronics, Information and Systems, 2007, 127, 1800-1805.	0.2	5
29	Artifact Tolerance Test for Capacitive Wearable Chest-Belt Electrocardiograph. IEEJ Transactions on Electronics, Information and Systems, 2017, 137, 607-615.	0.2	5
30	A wearable ECG-HR detector and its application to automatic assist-mode selection of an electrically assisted bicycle. , 2011, 2011, 6903-6.		4
31	Design and Validation of Front-End Voltage Follower for Capacitive Electrocardiogram Measurement Using Bootstrapping Technique. , 2018, 2018, 5780-5783.		4
32	Development and Evaluation of a Wireless Interface for Inputting Characters Using Laplacian EMG. , 2006, 2006, 2518-21.		3
33	Stability improvement and noise suppression in non-contact in-bed electrocardiogram measurement using laminated feedback electrode. , 2017, , .		3
34	Measurement System for Detecting Action Potential to Electrical Vagus Nerve Stimulation. , 2018, , .		2
35	Capacitive-Coupling Impedance Spectroscopy Using a Non-Sinusoidal Oscillator and Discrete-Time Fourier Transform: An Introductory Study. Sensors, 2020, 20, 6392.	3.8	2
36	Measurement of Vagus Nerve Response to Transcutaneous Electrical Ear Canal Stimulation in Anesthetized Rat. , 2020, 2020, 5216-5219.		2

#	ARTICLE	IF	CITATIONS
37	Cuffless Continuous Estimation of Relative Mean Arterial Pressure Using Unrestrained and Noncontact Ballistocardiogram and Electrocardiogram: Evaluation in Short Time In-bed Experiments. <i>Advanced Biomedical Engineering</i> , 2021, 10, 36-50.	0.6	2
38	Short-Time Impedance Spectroscopy Using a Mode-Switching Nonsinusoidal Oscillator: Applicability to Biological Tissues and Continuous Measurement. <i>Sensors</i> , 2021, 21, 6951.	3.8	2
39	An Analysis of Saccadic Eye Movements and Facial Images for Assessing Vigilance Levels During Simulated Driving. <i>Lecture Notes in Computer Science</i> , 2009, , 451-460.	1.3	2
40	FPGA-Based Processor for Continual Capacitive-Coupling Impedance Spectroscopy and Circuit Parameter Estimation. <i>Sensors</i> , 2022, 22, 4406.	3.8	2
41	Performance evaluation of electroencephalograph with negative capacitance converter. , 2012, , .		1
42	Non-contact Measurements of Blink-Associated Electrooculogram Using In-Pillow Cloth Electrodes: Potential Application as a Communication Aid. , 2020, 2020, 4147-4150.		1
43	Simultaneous Measurements of Capacitive Electrocardiogram and Ballistocardiogram Using In-Bed Fabric Sheet Electrode for Blood Pressure Estimation. , 2020, 2020, 4543-4546.		1
44	Influence of Sound Pressure Level of Beep Stimulation on Arousal Effect. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2008, 44, 871-877.	0.2	1
45	Sensitivity Improvement of Respiratory Movement Detection in Non-contact In-Bed Cardiopulmonary Measurements During Sleep. <i>IFMBE Proceedings</i> , 2018, , 19-25.	0.3	1
46	Physical Model-based Study on Non-Contact Electrocardiogram Measurement of Low Birth Weight Infants in Incubators through a Cloth. , 2021, , .		1
47	Investigation of effects of ways of using muscles on performance of fine handwork. , 2009, , .		0
48	Concentric bipolar active electrode for noninvasive biopotential measurement in autonomic nervous system. , 2013, , .		0
49	High gamma band activity in noninvasively measured EEG preceding anti-saccade initiation. , 2014, , .		0
50	Non-Contact Measurement of Electrocardiogram in Neonates and Infants Using Sheet-Type Fabric Electrodes with Modified Driven-Seat Ground. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	0
51	Effect of Automatic Gain Control on Non-Contact Capacitive Measurement of Respiratory Movements during Sleep. <i>Proceedings (mdpi)</i> , 2017, 1, 830.	0.2	0
52	Feasibility Study on Fabric-Sheet Unified Sensing Electrode for Non-Contact In-Bed Measurements of ECG, Body Proximity and Respiratory Movement. <i>Proceedings (mdpi)</i> , 2019, 15, .	0.2	0
53	Title is missing!. <i>Journal of Life Support Engineering</i> , 2002, 14, 101-106.	0.0	0
54	A New Pupillometer with an Auto Focus System by Using Pupil and Iris Area. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2002, 122, 1651-1657.	0.2	0

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55	Measurement of Electrocardiogram by Electrodes with Fabric. Journal of Life Support Engineering, 2004, 16, 253-254.	0.0	0
56	Development of a Back-Leading Electrocardiograph Using Capacitive Coupling. Journal of Life Support Engineering, 2004, 16, 219-220.	0.0	0
57	Development of Character Input Interface using Laplacian EMG with Wireless Active Electrode. Journal of Life Support Engineering, 2005, 17, 40-40.	0.0	0
58	An Analysis of Eye Movement and Facial Image for Assessing Drowsiness Level during Simulated Driving. Journal of Life Support Engineering, 2006, 18, 124-124.	0.0	0
59	A New Implementation Method of the Reverse Engineering Algorithm to Elucidate Gene Functional Dependencies. IEJ Transactions on Electronics, Information and Systems, 2007, 127, 1712-1718.	0.2	0
60	A Fundamental Study of Capacitive-Type Electrocardiograph Capable of Detecting the Signal from the Supine and Lateral Positions. Journal of Life Support Engineering, 2007, 19, 180-180.	0.0	0
61	Simulation of Mach-Effect Illusion Using Three-Layered Retinal Cell Model and Monte Carlo Method. IEJ Transactions on Electronics, Information and Systems, 2007, 127, 1699-1704.	0.2	0
62	Control of Five Finger of Computer Graphics Hand Using Electromyographic Signal Measured with Multi-channeled Small Laplacian Electrodes. Communications in Computer and Information Science, 2011, , 166-170.	0.5	0
63	Complementary Bandwidth Extension Method Using Analog Forward and Digital Inverse Filters and Its Application to Noncontact ECG Measurement. IEJ Transactions on Electronics, Information and Systems, 2011, 131, 1966-1974.	0.2	0
64	Bed Occupancy Monitor System Using Capacitively Coupled Electrodes. Transactions of the Society of Instrument and Control Engineers, 2014, 50, 622-624.	0.2	0
65	Parametric Analysis of Visually Triggered Saccade Depending on Vigilance States. Transactions of the Society of Instrument and Control Engineers, 1997, 33, 861-868.	0.2	0
66	Timer for Pressure Ulcer Prevention. IEJ Transactions on Electronics, Information and Systems, 2019, 139, 634-635.	0.2	0
67	Noncontact Simultaneous Measurement of Cough-Associated Electromyogram, Electrocardiogram, and Body Proximity Using an In-Bed Fabric-Sheet Electrode. , 2021, , .		0
68	A Noncontact Measurement of Saccadic Eye Movement with Two High-speed Cameras. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
69	Development and Evaluation of a Wireless Interface for Inputting Characters Using Laplacian EMG. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0