

Guy A. Dumont

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

322
papers

5,425
citations

38
h-index

61
g-index

356
ext. papers

6,540
ext. citations

3.4
avg, IF

5.88
L-index

#	Paper	IF	Citations
322	Real-Time Multi-Level Neonatal Heart and Lung Sound Quality Assessment for Telehealth Applications. <i>IEEE Access</i> , 2022 , 10, 10934-10948	3.5	1
321	Neonatal Heart and Lung Sound Quality Assessment for Robust Heart and Breathing Rate Estimation for Telehealth Applications. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 4255-4266	7.2	7
320	Iterative Learning Control for Beam Loading Cancellation in Electron Linear Accelerator. <i>IFAC-PapersOnLine</i> , 2021 , 54, 55-60	0.7	0
319	Pregnancy Outcomes and Blood Pressure Visit-to-Visit Variability and Level in Three Less-Developed Countries. <i>Hypertension</i> , 2021 , 77, 1714-1722	8.5	1
318	Effect of ketamine on the NeuroSENSE WAV during propofol anesthesia; a randomized feasibility trial. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 35, 557-567	2	3
317	Robust PID control of propofol anaesthesia: Uncertainty limits performance, not PID structure. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 198, 105783	6.9	2
316	The Effect of Low-Dose Intraoperative Ketamine on Closed-Loop-Controlled General Anesthesia: A Randomized Controlled Equivalence Trial. <i>Anesthesia and Analgesia</i> , 2021 , 133, 1215-1224	3.9	1
315	Blood pressure thresholds in pregnancy for identifying maternal and infant risk: a secondary analysis of Community-Level Interventions for Pre-eclampsia (CLIP) trial data. <i>The Lancet Global Health</i> , 2021 , 9, e1119-e1128	13.6	2
314	Causes and circumstances of maternal death: a secondary analysis of the Community-Level Interventions for Pre-eclampsia (CLIP) trials cohort. <i>The Lancet Global Health</i> , 2021 , 9, e1242-e1251	13.6	1
313	Model-plant mismatch detection for cross-directional processes. <i>ISA Transactions</i> , 2021 , 117, 150-159	5.5	
312	Safety enforcement in closed-loop anesthesia: a comparison study. <i>Control Engineering Practice</i> , 2020 , 105, 104653	3.9	1
311	Smart triage: triage and management of sepsis in children using the point-of-care Pediatric Rapid Sepsis Trigger (PRST) tool. <i>BMC Health Services Research</i> , 2020 , 20, 493	2.9	5
310	An Optimization Framework for the Design of Noise Shaping Loop Filters with Improved Stability Properties. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 6276-6298	2.2	
309	Models for control of intravenous anesthesia 2020 , 119-166		0
308	Whole blood genome-wide transcriptome profiling and metagenomics next-generation sequencing in young infants with suspected sepsis in low-and middle-income countries: A study protocol. <i>Gates Open Research</i> , 2020 , 4, 139	2.4	
307	Evaluating NeuroSENSE for assessing depth of hypnosis during desflurane anesthesia: an adaptive, randomized-controlled trial. <i>Canadian Journal of Anaesthesia</i> , 2020 , 67, 324-335	3	2
306	Support vector machine approach for model-plant mismatch detection. <i>Computers and Chemical Engineering</i> , 2020 , 133, 106660	4	4

305	Association of cortical spreading depression and seizures in patients with medically intractable epilepsy. <i>Clinical Neurophysiology</i> , 2020 , 131, 2861-2874	4.3	4
304	Individualized closed-loop anesthesia through patient model partitioning. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 361-364	0.9	2
303	The Community-Level Interventions for Pre-eclampsia (CLIP) cluster randomised trials in Mozambique, Pakistan, and India: an individual participant-level meta-analysis. <i>Lancet, The</i> , 2020 , 396, 553-563	4.0	17
302	Falsified Model-Invariant Safety-Preserving Control With Application to Closed-Loop Anesthesia. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 617-625	4.8	3
301	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 254-263	4.8	3
300	Extended habituating model predictive control of propofol and remifentanil anesthesia. <i>Biomedical Signal Processing and Control</i> , 2020 , 55, 101656	4.9	9
299	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2490-2496	4.8	6
298	How Uncertain Is Our Reference Standard for Respiratory Rate Measurement?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1036-1037	10.2	7
297	Ultra-low Noise EEG at LSBB: Effective Connectivity Analysis. <i>E3S Web of Conferences</i> , 2019 , 88, 02002	0.5	
296	Model-invariant viability kernel approximation. <i>Systems and Control Letters</i> , 2019 , 127, 13-18	2.4	1
295	Optical Assessment of Spinal Cord Tissue Oxygenation Using a Miniaturized Near Infrared Spectroscopy Sensor. <i>Journal of Neurotrauma</i> , 2019 , 36, 3034-3043	5.4	10
294	Identification of symmetric noncausal processes. <i>Automatica</i> , 2019 , 103, 515-530	5.7	0
293	Optimizing Robust PID Control of Propofol Anesthesia for Children: Design and Clinical Evaluation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2918-2923	5	11
292	An Explicit Reference Governor Scheme for Closed-Loop Anesthesia 2019 ,		10
291	Current-Iteration Non-Causal Iterative Learning Control for Beam Loading Cancellation in Particle Accelerators 2019 ,		1
290	Are respiratory rate counters really so bad? Throwing the baby out with the bath water. <i>EClinicalMedicine</i> , 2019 , 16, 14	11.3	2
289	A formalized safety system for closed-loop anesthesia with pharmacokinetic and pharmacodynamic constraints. <i>Control Engineering Practice</i> , 2019 , 84, 23-31	3.9	5
288	Pediatric pulse oximetry-based OSA screening at different thresholds of the apnea-hypopnea index with an expression of uncertainty for inconclusive classifications. <i>Sleep Medicine</i> , 2019 , 60, 45-52	4.6	13

287	Feasibility of continuous sedation monitoring in critically ill intensive care unit patients using the NeuroSENSE WAV index. <i>Journal of Clinical Monitoring and Computing</i> , 2018 , 32, 1081-1091	2	7
286	A Multi-Week Assessment of a Mobile Exergame Intervention in an Elementary School. <i>Games for Health Journal</i> , 2018 , 7, 1-8	4.2	7
285	Patient and health care professional perspectives on using telehealth to deliver pulmonary rehabilitation. <i>Chronic Respiratory Disease</i> , 2018 , 15, 71-80	3	18
284	Design and Evaluation of a Closed-Loop Anesthesia System With Robust Control and Safety System. <i>Anesthesia and Analgesia</i> , 2018 , 127, 883-894	3.9	29
283	. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1758-1770	4.8	19
282	Multi-model robust control of depth of hypnosis. <i>Biomedical Signal Processing and Control</i> , 2018 , 40, 443-453	4.5	20
281	Coordinated semi-adaptive closed-loop control for infusion of two interacting medications. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018 , 32, 134-146	2.8	3
280	Night to night pulse oximetry variability in children with suspected sleep apnea. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 179-182	0.9	2
279	Symbolic dynamics to enhance diagnostic ability of portable oximetry from the phone oximeter in the detection of paediatric sleep apnoea. <i>Physiological Measurement</i> , 2018 ,	2.9	5
278	Extracting Instantaneous Respiratory Rate From Multiple Photoplethysmogram Respiratory-Induced Variations. <i>Frontiers in Physiology</i> , 2018 , 9, 948	4.6	27
277	Performance Assessment of Cross-Directional Control for Paper Machines. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 208-221	4.8	4
276	A semi-adaptive control approach to closed-loop medication infusion. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 240-254	2.8	9
275	In Response. <i>Anesthesia and Analgesia</i> , 2017 , 124, 1735-1736	3.9	
274	Detecting obstructive sleep apnea in children by self-affine visualization of oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3757-3760	0.9	1
273	Model-Plant Mismatch Detection with Support Vector Machines. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7993-7998.	0.7	2
272	A roadmap for the implementation of mHealth innovations for image-based diagnostic support in clinical and public-health settings: a focus on front-line health workers and health-system organizations. <i>Global Health Action</i> , 2017 , 10, 1340254	3	13
271	Medical mobile technologies - what is needed for a sustainable and scalable implementation on a global scale?. <i>Global Health Action</i> , 2017 , 10, 1344046	3	9
270	Closed-Loop Control of Total Intravenous Anesthesia During Significant Intraoperative Blood Loss: A Case Report. <i>A & A Case Reports</i> , 2017 , 9, 239-243		3

269	A delayed functional observer/predictor with bounded-error for depth of hypnosis monitoring. <i>Journal of Clinical Monitoring and Computing</i> , 2017 , 31, 1043-1052	2	4
268	A Formally-Verified Safety System for Closed-Loop Anesthesia. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4424-4429	0.7	7
267	Correntropy-Based Pulse Rate Variability Analysis in Children with Sleep Disordered Breathing. <i>Entropy</i> , 2017 , 19, 282	2.8	3
266	Model-invariant safety-preserving control 2016 ,		4
265	Identifying individual sleep apnea/hypoapnea epochs using smartphone-based pulse oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 3195-3198	0.9	12
264	Semi-adaptive feedback control of opioid infusion 2016 ,		2
263	Ultra-low Noise EEG at LSBB: New results. <i>E3S Web of Conferences</i> , 2016 , 12, 05003	0.5	1
262	A Procedural Electroencephalogram Simulator for Evaluation of Anesthesia Monitors. <i>Anesthesia and Analgesia</i> , 2016 , 123, 1136-1140	3.9	11
261	On the Existence and Design of Functional Observers for LTI Systems, with Application to User Modeling. <i>Asian Journal of Control</i> , 2016 , 18, 192-205	1.7	6
260	An Observer/Predictor-Based Model of the User for Attaining Situation Awareness. <i>IEEE Transactions on Human-Machine Systems</i> , 2016 , 46, 279-290	4.1	7
259	Evaluation of a Novel Mobile Exergame in a School-Based Environment. <i>Cyberpsychology, Behavior, and Social Networking</i> , 2016 , 19, 186-92	4.4	15
258	Evaluation of cardiac modulation in children in response to apnea/hypopnea using the Phone Oximeter. <i>Physiological Measurement</i> , 2016 , 37, 187-202	2.9	16
257	Automatic tuning of robust constrained cross-direction controllers. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016 , 30, 1550-1567	2.8	3
256	Respiratory rate and pulse oximetry derived information as predictors of hospital admission in young children in Bangladesh: a prospective observational study. <i>BMJ Open</i> , 2016 , 6, e011094	3	16
255	A synthesis method for automatic handling of inter-patient variability in closed-loop anesthesia 2016 ,		9
254	Non-invasive monitoring of spreading depression. <i>Neuroscience</i> , 2016 , 333, 1-12	3.9	8
253	Impact of model plant mismatch on performance of control systems: An application to paper machine control. <i>Control Engineering Practice</i> , 2015 , 43, 59-68	3.9	8
252	Closed-loop target-controlled infusion systems: stability and performance aspects. <i>Military Medicine</i> , 2015 , 180, 96-103	1.3	4

251	Variability in estimating shunt from single pulse oximetry measurements. <i>Physiological Measurement</i> , 2015 , 36, 967-81	2.9	4
250	A model-based approach to stability analysis of autonomic-cardiac regulation. <i>Computers in Biology and Medicine</i> , 2015 , 61, 119-26	7	5
249	Moving beyond silos: How do we provide distributed personalized medicine to pregnant women everywhere at scale? Insights from PRE-EMPT. <i>International Journal of Gynecology and Obstetrics</i> , 2015 , 131 Suppl 1, S10-5	4	8
248	Scalable Safety-Preserving Robust Control Synthesis for Continuous-Time Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 3065-3070	5.9	18
247	Delay-incorporating observability and predictability analysis of safety-critical continuous-time systems. <i>IET Control Theory and Applications</i> , 2015 , 9, 1692-1699	2.5	4
246	Assessment of a Mobile Game ("MobileKids Monster Manor") to Promote Physical Activity Among Children. <i>Games for Health Journal</i> , 2015 , 4, 149-58	4.2	43
245	Identification of scalp EEG circadian variation using a novel correlation sum measure. <i>Journal of Neural Engineering</i> , 2015 , 12, 056004	5	1
244	Signal Processing and Automation in Anesthesia [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2015 , 32, 138-144	9.4	2
243	Detecting model-plant mismatch without external excitation 2015 ,		1
242	Assessing the incremental value of blood oxygen saturation (SpO ₂) in the miniPIERS (Pre-eclampsia Integrated Estimate of RiSk) Risk Prediction Model. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2015 , 37, 16-24	1.3	24
241	Moving-Horizon Predictive Input Design for Closed-Loop Identification. <i>IFAC-PapersOnLine</i> , 2015 , 48, 135-140	0.7	3
240	The Performance of a Mobile Phone Respiratory Rate Counter Compared to the WHO ARI Timer. <i>Journal of Healthcare Engineering</i> , 2015 , 6, 691-703	3.7	7
239	Development and Internal Validation of a Predictive Model Including Pulse Oximetry for Hospitalization of Under-Five Children in Bangladesh. <i>PLoS ONE</i> , 2015 , 10, e0143213	3.7	12
238	Estimation of respiratory rate from photoplethysmographic imaging videos compared to pulse oximetry. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1331-8	7.2	27
237	Analysis of L1 adaptive state feedback control. Why does it approximate an implementable LTI controller?. <i>European Journal of Control</i> , 2015 , 23, 1-7	2.5	3
236	Cross-directional controller performance monitoring for paper machines 2015 ,		1
235	Estimating instantaneous respiratory rate from the photoplethysmogram. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6150-3	0.9	6
234	Automatic tuning of paper machines cross-direction controllers via linear matrix inequalities. <i>Journal of Electrical Systems and Information Technology</i> , 2015 , 2, 283-295	2	4

233	Safety-preserving closed-loop control of anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 454-7</i>	0.9	3
232	Pulse oximetry recorded from the Phone Oximeter for detection of obstructive sleep apnea events with and without oxygen desaturation in children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7692-5</i>	0.9	16
231	Usability and Feasibility of PIERS on the Move: An mHealth App for Pre-Eclampsia Triage. <i>JMIR MHealth and UHealth, 2015, 3, e37</i>	5.5	51
230	Design and Clinical Evaluation of Robust PID Control of Propofol Anesthesia in Children. <i>IEEE Transactions on Control Systems Technology, 2014, 22, 491-501</i>	4.8	66
229	Noninvasive subject-specific monitoring of autonomic-cardiac regulation. <i>IEEE Transactions on Biomedical Engineering, 2014, 61, 1196-207</i>	5	3
228	Noninvasive Optical Monitoring of Bladder Filling to Capacity Using a Wireless Near Infrared Spectroscopy Device. <i>IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 325-33</i>	5.1	14
227	Improving the accuracy and efficiency of respiratory rate measurements in children using mobile devices. <i>PLoS ONE, 2014, 9, e99266</i>	3.7	45
226	Development of a screening tool for sleep disordered breathing in children using the phone Oximeter. <i>PLoS ONE, 2014, 9, e112959</i>	3.7	77
225	Preliminary results on quantification of Seismocardiogram morphological changes, using principal component analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 6092-5</i>	0.9	1
224	Sensitivity of MIMO controller performance to model-plant mismatch, with applications to paper machine control 2014,		2
223	Sharing Vital Signs between mobile phone applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 3646-9</i>	0.9	1
222	Respiratory rate assessment from photoplethysmographic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 5397-400</i>	0.9	4
221	Oxygen saturation resolution influences regularity measurements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 2257-60</i>	0.9	3
220	Development of mHealth applications for pre-eclampsia triage. <i>IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1857-64</i>	7.2	55
219	Sensitivity of controller performance indices to model-plant mismatch: An application to paper machine control 2014,		3
218	Using machine-to-machine / Internet of Things communication to simplify medical device information exchange 2014,		3
217	Precordial vibrations provide noninvasive detection of early-stage hemorrhage. <i>Shock, 2014, 41, 91-6</i>	3.4	37
216	Automated decomposition of needle EMG signal using STFT and wavelet transforms 2014,		2

215	Feedback control for clinicians. <i>Journal of Clinical Monitoring and Computing</i> , 2014 , 28, 5-11	2	9
214	Estimating respiratory and heart rates from the correntropy spectral density of the photoplethysmogram. <i>PLoS ONE</i> , 2014 , 9, e86427	3.7	69
213	Decision Support and Closed-Loop Systems 2014 , 41-46		
212	Monitoring the EEG for Assessing Depth of Anesthesia 2014 , 255-260		1
211	Monitoring nociception during general anesthesia with cardiorespiratory coherence. <i>Journal of Clinical Monitoring and Computing</i> , 2013 , 27, 551-60	2	13
210	Multiparameter respiratory rate estimation from the photoplethysmogram. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1946-53	5	226
209	Machine Fault Diagnosis Using Mutual Information and Informative Wavelet 2013 , 183-192		
208	Robust closed-loop control of induction and maintenance of propofol anesthesia in children. <i>Paediatric Anaesthesia</i> , 2013 , 23, 712-9	1.8	61
207	Predictive optimal control for thermo-mechanical pulping processes with multi-stage low consistency refining. <i>Journal of Process Control</i> , 2013 , 23, 1001-1011	3.9	21
206	Quantification of the variability in response to propofol administration in children. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2521-9	5	34
205	2013 ,		7
204	AWARE: A video monitoring library applied to the Air Traffic Control context 2013 ,		4
203	Modeling the User as an Observer to Determine Display Information Requirements 2013 ,		5
202	Individualized closed-loop control of propofol anesthesia: A preliminary study. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 500-508	4.9	63
201	Analyzing the resting state functional connectivity in the human language system using near infrared spectroscopy. <i>Frontiers in Human Neuroscience</i> , 2013 , 7, 921	3.3	28
200	Predicting epileptic seizures in scalp EEG based on a variational Bayesian Gaussian mixture model of zero-crossing intervals. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 1401-13	5	98
199	Lagrangian methods for approximating the viability kernel in high-dimensional systems. <i>Automatica</i> , 2013 , 49, 2017-2029	5.7	73
198	Experience report 2013 ,		12

197	Design and evaluation of a low-cost smartphone pulse oximeter. <i>Sensors</i> , 2013 , 13, 16882-93	3.8	46
196	Closed-loop control of anesthesia: a primer for anesthesiologists. <i>Anesthesia and Analgesia</i> , 2013 , 117, 1130-8	3.9	60
195	Closed-loop fluid resuscitation: robustness against weight and cardiac contractility variations. <i>Anesthesia and Analgesia</i> , 2013 , 117, 1110-8	3.9	28
194	Real-time cardiorespiratory coherence is blind to changes in respiration during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5360-4	0.9	
193	Detection of the optimal region of interest for camera oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2263-6	0.9	7
192	Oxygen saturation in children with and without obstructive sleep apnea using the phone-oximeter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2531-4	0.9	15
191	Circadian variation of scalp EEG: a novel measure based on wavelet packet transform and differential entropy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6297-300	0.9	1
190	Changes in cardiac index and blood pressure on positioning children prone for scoliosis surgery. <i>Anaesthesia</i> , 2013 , 68, 742-6	6.6	16
189	Pulse rate variability compared with Heart Rate Variability in children with and without sleep disordered breathing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6563-6	0.9	29
188	A novel approach to the design of an artificial bionic baroreflex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 3813-6	0.9	1
187	Recognition of correct finger placement for photoplethysmographic imaging. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7480-3	0.9	4
186	Ultra-low-cost clinical pulse oximetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 2874-7	0.9	6
185	Experience report. <i>ACM SIGPLAN Notices</i> , 2013 , 48, 357-362	0.2	5
184	An evaluation of an expert system for detecting critical events during anesthesia in a human patient simulator: a prospective randomized controlled study. <i>Anesthesia and Analgesia</i> , 2013 , 117, 380-9	3.9	14
183	Circadian variation of heart rate variability across sleep stages. <i>Sleep</i> , 2013 , 36, 1919-28	1.1	101
182	Circadian adaptation to night shift work influences sleep, performance, mood and the autonomic modulation of the heart. <i>PLoS ONE</i> , 2013 , 8, e70813	3.7	68
181	Photoplethysmogram Processing Using an Adaptive Single Frequency Phase Vocoder Algorithm. <i>Communications in Computer and Information Science</i> , 2013 , 31-42	0.3	1
180	Usability testing of a prototype Phone Oximeter with healthcare providers in high- and low-medical resource environments. <i>Anaesthesia</i> , 2012 , 67, 957-67	6.6	33

179	. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2012 , 42, 685-706		14
178	A direct dynamic dose-response model of propofol for individualized anesthesia care. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 571-8	5	31
177	A monitor-decoupled pharmacodynamic model of propofol in children using state entropy as clinical endpoint. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 736-43	5	5
176	Closed-Loop Anesthesia in Children using a PID controller: A Pilot Study. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 317-322		8
175	Simulated mid-ranging control of propofol and remifentanyl using EEG-measured hypnotic depth of anesthesia 2012 ,		5
174	Improving maternal and perinatal outcomes in the hypertensive disorders of pregnancy: a vision of a community-focused approach. <i>International Journal of Gynecology and Obstetrics</i> , 2012 , 119 Suppl 1, S30-4	4	13
173	Robust closed-loop control of hypnosis with propofol using WAVCNS index as the controlled variable. <i>Biomedical Signal Processing and Control</i> , 2012 , 7, 517-524	4.9	35
172	Wavelet-based motion artifact removal for functional near-infrared spectroscopy. <i>Physiological Measurement</i> , 2012 , 33, 259-70	2.9	275
171	System identification and closed-loop control of end-tidal CO ₂ in mechanically ventilated patients. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 1176-84		7
170	A circadian rhythm in heart rate variability contributes to the increased cardiac sympathovagal response to awakening in the morning. <i>Chronobiology International</i> , 2012 , 29, 757-68	3.6	70
169	Detection of epileptic seizures in scalp electroencephalogram: an automated real-time wavelet-based approach. <i>Journal of Clinical Neurophysiology</i> , 2012 , 29, 1-16	2.2	14
168	Computing the viability kernel using maximal reachable sets 2012 ,		29
167	Adaptive pulse segmentation and artifact detection in photoplethysmography for mobile applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3131-4	0.9	45
166	Design challenges for camera oximetry on a mobile phone. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 2448-51	0.9	27
165	Real-time cardiorespiratory coherence detects antinociception during general anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3813-6	0.9	3
164	Sleep-wake and circadian-dependent variation of cardiorespiratory coherence. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3817-20	0.9	3
163	Myocardial contractility: a seismocardiography approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3801-4	0.9	21
162	Autonomic-cardiorespiratory regulation: a physiology-based mathematical model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3805-8	0.9	4

161	Functional connectivity analysis of cortical networks in Functional Near Infrared Spectroscopy using phase synchronization. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 5182-5</i>	0.9	3
160	Photoplethysmogram signal quality estimation using repeated Gaussian filters and cross-correlation. <i>Physiological Measurement, 2012, 33, 1617-29</i>	2.9	71
159	Analysis of L1 adaptive output feedback control; equivalent LTI controllers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1472-1477</i>		3
158	Estimation of Higher Moments of a Transfer Function Using Input and Output Data. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 239-244</i>		
157	Closed-Loop Control of Anesthesia - A Review. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 373-378</i>		21
156	A vibro-tactile display for clinical monitoring: real-time evaluation. <i>Anesthesia and Analgesia, 2012, 115, 588-94</i>	3.9	14
155	2012,		4
154	The continual reachability set and its computation using maximal reachability techniques 2011,		14
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