

Alain BeuchÃ©e

List of Publications by Year in descending order

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71
papers

1,928
citations

394421

19
h-index

276875

41
g-index

81
all docs

81
docs citations

81
times ranked

2217
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Maturation in Preterm Infants Through an Ensemble Machine Learning Algorithm Using Physiological Signals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 400-410.	6.3	8
2	Patent ductus arteriosus, tracheal ventilation, and the risk of bronchopulmonary dysplasia. <i>Pediatric Research</i> , 2022, 91, 652-658.	2.3	16
3	Effect of Early Targeted Treatment of Ductus Arteriosus with Ibuprofen on Survival Without Cerebral Palsy at 2 Years in Infants with Extreme Prematurity: A Randomized Clinical Trial. <i>Journal of Pediatrics</i> , 2021, 233, 33-42.e2.	1.8	28
4	Apnea bradycardia detection based on new coupled hidden semi Markov model. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 1-11.	2.8	6
5	Early Detection of Late Onset Sepsis in Premature Infants Using Visibility Graph Analysis of Heart Rate Variability. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1006-1017.	6.3	32
6	Diagnosis of Neonatal Late-Onset Infection in Very Preterm Infant: Inter-Observer Agreement and International Classifications. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 882.	2.6	5
7	Detection of Apnea Bradycardia from ECG Signals of Preterm Infants Using Layered Hidden Markov Model. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2159-2169.	2.5	6
8	Early bradycardia detection and therapeutic interventions in preterm infant monitoring. <i>Scientific Reports</i> , 2021, 11, 10486.	3.3	3
9	Augmenting Critical Care Patient Monitoring Using Wearable Technology: Review of Usability and Human Factors. <i>JMIR Human Factors</i> , 2021, 8, e16491.	2.0	6
10	Frequency of Extracorporeal Membrane Oxygenation Support and Outcomes After Implementation of a Structured PICU Network in Neonates and Children. <i>Pediatric Critical Care Medicine</i> , 2021, Publish Ahead of Print, e558-e570.	0.5	4
11	Association between Baseline Cortisol Serum Concentrations and the Effect of Prophylactic Hydrocortisone in Extremely Preterm Infants. <i>Journal of Pediatrics</i> , 2021, 234, 65-70.e3.	1.8	16
12	Association Between Early Amino Acid Intake and Full-Scale IQ at Age 5 Years Among Infants Born at Less Than 30 Weeksâ€™ Gestation. <i>JAMA Network Open</i> , 2021, 4, e2135452.	5.9	13
13	Recurrent Neural Networks for Early Detection of Late Onset Sepsis in Premature Infants Using Heart Rate Variability. , 2021, , .		4
14	A novel, short and easy-to-perform method to evaluate newbornsâ€™ social olfactory preferences. <i>Animal Cognition</i> , 2020, 23, 843-850.	1.8	3
15	Higher tactile sensitivity in preterm infants at term-equivalent age: A pilot study. <i>PLoS ONE</i> , 2020, 15, e0229270.	2.5	12
16	<i>Staphylococcus capitis</i> isolated from bloodstream infections: a nationwide 3-month survey in 38 neonatal intensive care units. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2020, 39, 2185-2194.	2.9	12
17	Novel Interface Designs for Patient Monitoring Applications in Critical Care Medicine: Human Factors Review. <i>JMIR Human Factors</i> , 2020, 7, e15052.	2.0	9
18	Robust, real-time generic detector based on a multi-feature probabilistic method. <i>PLoS ONE</i> , 2019, 14, e0223785.	2.5	13

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19	Improving methodology in heart rate variability analysis for the premature infants: Impact of the time length. PLoS ONE, 2019, 14, e0220692.	2.5	20
20	Impact of early protein and energy intakes on neurodevelopment at 2 years of corrected age in very low birth weight infants: A single-center observational study. PLoS ONE, 2019, 14, e0218887.	2.5	12
21	Autonomic maturation from birth to 2 years: normative values. Heliyon, 2019, 5, e01300.	3.2	31
22	Premedication practices for delivery room intubations in premature infants in France: Results from the EPIPAGE 2 cohort study. PLoS ONE, 2019, 14, e0215150.	2.5	5
23	Prototyping a User Interface for a New Sepsis Risk Decision Support System Using Participatory Design. Advances in Intelligent Systems and Computing, 2019, , 242-248.	0.6	1
24	Defining User Needs for a New Sepsis Risk Decision Support System in Neonatal ICU Settings Through Ethnography: User Interviews and Participatory Design. Advances in Intelligent Systems and Computing, 2019, , 221-227.	0.6	0
25	State of the Art and Future Trends in the Usability of Patient Monitors. Advances in Intelligent Systems and Computing, 2019, , 338-344.	0.6	0
26	Effect of Atropine With Propofol vs Atropine With Atracurium and Sufentanil on Oxygen Desaturation in Neonates Requiring Nonemergency Intubation. JAMA - Journal of the American Medical Association, 2018, 319, 1790.	7.4	35
27	Impact of surfactant administration through a thin catheter in the delivery room: A quality control chart analysis coupled with a propensity score matched cohort study in preterm infants. PLoS ONE, 2018, 13, e0208252.	2.5	18
28	Assessment of tobacco smoke effects on neonatal cardiorespiratory control using a semi-automated processing approach. Medical and Biological Engineering and Computing, 2018, 56, 2025-2037.	2.8	7
29	Early onset neonatal sepsis is associated with a high heart rate during automatically selected stationary periods. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 749-754.	1.5	17
30	Multi-feature classifiers for burst detection in single EEG channels from preterm infants. Journal of Neural Engineering, 2017, 14, 046015.	3.5	3
31	Chorioamnionitis following preterm premature rupture of membranes and fetal heart rate variability. PLoS ONE, 2017, 12, e0184924.	2.5	12
32	Transvesical Intra-Abdominal Pressure Measurement in Newborn. Pediatric Critical Care Medicine, 2016, 17, 144-149.	0.5	4
33	Recursive Model Identification for the Evaluation of Baroreflex Sensitivity. Acta Biotheoretica, 2016, 64, 469-478.	1.5	1
34	Early MRI in neonatal hypoxic-ischaemic encephalopathy treated with hypothermia: Prognostic role at 2-year follow-up. European Journal of Radiology, 2016, 85, 1366-1374.	2.6	34
35	Coupled Hidden Markov Model-Based Method for Apnea Bradycardia Detection. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 527-538.	6.3	21
36	Effect of early low-dose hydrocortisone on survival without bronchopulmonary dysplasia in extremely preterm infants (PREMILOC): a double-blind, placebo-controlled, multicentre, randomised trial. Lancet, The, 2016, 387, 1827-1836.	13.7	261

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37	Biological Impact of Recent Guidelines on Parenteral Nutrition in Preterm Infants. Journal of Pediatric Gastroenterology and Nutrition, 2015, 61, 605-609.	1.8	27
38	Denosing preterm EEG by signal decomposition and adaptive filtering: A comparative study. Medical Engineering and Physics, 2015, 37, 315-320.	1.7	22
39	Online apneaâ€“bradycardia detection based on hidden semi-Markov models. Medical and Biological Engineering and Computing, 2015, 53, 1-13.	2.8	21
40	Comparison of early and late MRI in neonatal hypoxicâ€“ischemic encephalopathy using three assessment methods. Pediatric Radiology, 2015, 45, 1988-2000.	2.0	22
41	Survival and Morbidity of Preterm Children Born at 22 Through 34 Weeksâ€™ Gestation in France in 2011. JAMA Pediatrics, 2015, 169, 230.	6.2	576
42	Recursive identification of an arterial baroreflex model for the evaluation of cardiovascular autonomic modulation. Computers in Biology and Medicine, 2015, 66, 287-294.	7.0	9
43	Artifact rejection and cycle detection in immature breathing: Application to the early detection of neonatal sepsis. Biomedical Signal Processing and Control, 2015, 16, 9-16.	5.7	14
44	Performance analysis of Hurst exponent estimators using surrogate-data and fractional lognormal noise models: Application to breathing signals from preterm infants. , 2013, 23, 1610-1619.		6
45	Early detection of apnea-bradycardia episodes in preterm infants based on coupled hidden Markov model. , 2013, , .		8
46	Possible Predictors of Cardiorespiratory Events after Immunization in Preterm Neonates. Neonatology, 2013, 104, 151-155.	2.0	11
47	A model-based approach for the evaluation of vagal and sympathetic activities in a newborn lamb. , 2013, 2013, 3881-4.		3
48	Benefits of a New Pediatric Tripleâ€“Chamber Bag for Parenteral Nutrition in Preterm Infants. Journal of Pediatric Gastroenterology and Nutrition, 2012, 54, 210-217.	1.8	41
49	Evolutionary Optimization of ECG Feature Extraction Methods: Applications to the Monitoring of Adult Myocardial Ischemia and Neonatal Apnea Bradycardia Events. , 2012, , 237-273.		6
50	Influence of Hypoxia and Hypercapnia on Sleep State-Dependent Heart Rate Variability Behavior in Newborn Lambs. Sleep, 2012, 35, 1541-9.	1.1	17
51	Multivariate ECG analysis for apnoea bradycardia detection and characterisation in preterm infants. International Journal of Biomedical Engineering and Technology, 2011, 5, 247.	0.2	9
52	Performance analysis of hurst's exponent estimators in highly immature breathing patterns of preterm infants. , 2011, , .		4
53	On-line apnea-bradycardia detection using hidden semi-Markov models. , 2011, 2011, 4374-7.		18
54	Perinatal morbidity and mortality in twin pregnancies with dichorionic placentas following assisted reproductive techniques or ovarian induction alone: a comparative study. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2010, 153, 138-142.	1.1	25

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55	Postnatal autonomic activity in the preterm lamb. Research in Veterinary Science, 2010, 89, 242-249.	1.9	7
56	Uncorrelated Randomness of the Heart Rate Is Associated with Sepsis in Sick Premature Infants. Neonatology, 2009, 96, 109-114.	2.0	34
57	Outbreak of <i>Serratia marcescens</i> in a neonatal intensive care unit: contaminated unmedicated liquid soap and risk factors. Journal of Hospital Infection, 2009, 72, 17-22.	2.9	71
58	Analysis of the QRS complex for apnea-bradycardia characterization in preterm infants. , 2009, 2009, 946-9.		5
59	Hand washing soap as a source of neonatal <i>Serratia marcescens</i> outbreak. Acta Paediatrica, International Journal of Paediatrics, 2008, 97, 1381-1385.	1.5	37
60	HRV complexity as a diagnostic tool for late onset sepsis in sick premature infants. , 2008, , .		1
61	Red cell transport and transfusion in preterm infants. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2008, 94, F229-F229.	2.8	1
62	Magnetic resonance imaging measurement of fetal lung volume does not match postnatal survival. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2007, 92, F78-F78.	2.8	8
63	Prolonged Dynamic Changes in Autonomic Heart Rate Modulation Induced by Acid Laryngeal Stimulation in Non-Sedated Lambs. Neonatology, 2007, 91, 83-91.	2.0	17
64	Influence of sympathetic tone on heart rate during vagal stimulation and nitroprusside induced hypotension in ovine fetus. Autonomic Neuroscience: Basic and Clinical, 2005, 123, 19-25.	2.8	5
65	Congenital diaphragmatic hernia: prenatal diagnosis permits immediate intensive care with high survival rate in isolated cases. A population-based study. Prenatal Diagnosis, 2004, 24, 487-493.	2.3	51
66	Beat-to-beat blood pressure variability and patent ductus arteriosus in ventilated, premature infants. Pflugers Archiv European Journal of Physiology, 2003, 446, 154-160.	2.8	11
67	Beat-to-beat Analysis of the Relation between RT and RR Intervals in Newborns. Journal of Perinatology, 2003, 23, 212-217.	2.0	2
68	Short term prediction of severe bradycardia in premature newborns. , 2003, , .		4
69	Perinatal management and outcome of prenatally diagnosed congenital diaphragmatic hernia: a 1995-2000 series in Rennes University Hospital. Prenatal Diagnosis, 2002, 22, 988-994.	2.3	39
70	Room 220-222, 10/16/2000 9: 00 AM - 10: 30 AM (PD) Influence of the Bazett Correction on the Stress-Velocity Relation of the Left Ventricle in Children. Anesthesiology, 2000, 93, A-1308.	2.5	0
71	Left ventricle output and mean arterial blood pressure in preterm infants during the 1st day of life. European Journal of Pediatrics, 1999, 158, 817-824.	2.7	68