Kent W Stewart

List of Publications by Year in Descending Order

32 papers	211 citations	7 h-index	14 g-index
32 ext. papers	229 ext. citations	2 avg, IF	2.9 L-index

#	Paper	IF	Citations
32	Assessment of a low-cost LED vein detection method. *IFAC-PapersOnLine*, **2020**, 53, 15976-15981	0.7	
31	Demonstrator of a Low-Cost Hand Prosthesis. *IFAC-PapersOnLine*, **2020**, 53, 15998-16003	0.7	
30	Compact Microscope Module for High- Throughput Microscopy. *Current Directions in Biomedical Engineering*, **2020**, 6, 530-533	0.5	
29	Telemanipulation of an Articulated Robotic Arm using a Commercial Virtual Reality Controller. *Current Directions in Biomedical Engineering*, **2020**, 6, 127-130	0.5	0
28	Investigation of vibration parameters for needle insertion force reduction. *Current Directions in Biomedical Engineering*, **2020**, 6, 608-611	0.5	
27	Diagnostic Capabilities of a Smartphone- Based Low-Cost Microscope. *Current Directions in Biomedical Engineering*, **2020**, 6, 522-525	0.5	
26	Development of a realistic venepuncture phantom. *Current Directions in Biomedical Engineering*, **2020**, 6, 402-405	0.5	
25	Industrial robots for teleoperated surgery a systematic review of existing approaches. *Current Directions in Biomedical Engineering*, **2019**, 5, 153-156	0.5	7
24	Investigation of a non-invasive venous blood flow measurement device. *Current Directions in Biomedical Engineering*, **2019**, 5, 179-182	0.5	
23	Towards automated and painless venipuncture vibratory needle insertion techniques. *Current Directions in Biomedical Engineering*, **2019**, 5, 157-160	0.5	
22	Low-turbulence displacement-flow for an operating environment. *Current Directions in Biomedical Engineering*, **2019**, 5, 509-511	0.5	
21	Generalisability of a Virtual Trials Method for Glycaemic Control in Intensive Care. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 1543-1553	5	38
20	Interpretation of Retrospective BG Measurements. *Journal of Diabetes Science and Technology*, **2018**, 12, 967-975	4.1	6
19	Nutrition delivery of a model-based ICU glycaemic control system. *Annals of Intensive Care*, **2018**, 8, 4	8.9	20
18	A 3D insulin sensitivity prediction model enables more patient-specific prediction and model-based glycaemic control. *Biomedical Signal Processing and Control*, **2018**, 46, 192-200	4.9	16
17	Unsupervised Classification based Analysis of the Temporal Pattern of Insulin Sensitivity and Modelling Noise of Patient Groups under Tight Glycemic Control. *IFAC-PapersOnLine*, **2018**, 51, 62-67	0.7	1
16	Low-cost active knee orthoses a systematic evaluation. *Current Directions in Biomedical Engineering*, **2018**, 4, 649-652	0.5	

List of Publications

#	Publication	IF	Cit
15	Smartphone-based low-cost microscope with monolithic focusing mechanism. *Current Directions in Biomedical Engineering*, **2018**, 4, 267-270	0.5	2
14	Nutrition delivery, workload and performance in a model-based ICU glycaemic control system. *Computer Methods and Programs in Biomedicine*, **2018**, 166, 9-18	6.9	7
13	Creating smooth SI. B-spline basis function representations of insulin sensitivity. *Biomedical Signal Processing and Control*, **2018**, 44, 270-278	4.9	4
12	Analysis of Stochastic Noise of Blood-Glucose Dynamics. *IFAC-PapersOnLine*, **2017**, 50, 15157-15162	0.7	2
11	How should we interpret retrospective blood glucose measurements? Sampling and Interpolation. *IFAC-PapersOnLine*, **2017**, 50, 874-879	0.7	
10	The Effect of Variable vs Fixed Feeding on Glycaemic Control in the Adult ICU: Virtual Trial Evaluation. *IFAC-PapersOnLine*, **2017**, 50, 880-885	0.7	
9	Estimation of the insulin sensitivity profile for the stochastic variant of the ICING model **2016**,		4
8	**2016**,		4
7	Safety, efficacy and clinical generalization of the STAR protocol: a retrospective analysis. *Annals of Intensive Care*, **2016**, 6, 24	8.9	79
6	Generalizability of a Nonlinear Model-based Glycemic Controller. *IFAC-PapersOnLine*, **2016**, 49, 212-217	0.7	1
5	The effects of ICU specific nutrition management, as a human factor by using Stochastic Targeted glycaemic control**Research is supported by EU FP7 IRSES, Engineering Technology based Innovation in Medicine, Grant No. 318943 and Hungarian National Scientific Research Foundation, Grant No. K116574. Finally author Stewart was supported by a UC Doctoral Scholarship.. *IFAC-PapersOnLine*, **2016**, 49, 236-242	0.7	
4	Stochastic Simulation and Parameter Estimation of the ICING Model**Research is supported by EU FP7 IRSES, Engineering Technology based Innovation in Medicine, Grant No. 318943 and Hungarian National Scientific Research Foundation, Grant No. K116574.. *IFAC-PapersOnLine*, **2016**, 49, 218-223	0.7	2
3	Stochastic Model Predictive (STOMP) glycaemic control for the intensive care unit: Development and virtual trial validation. *Biomedical Signal Processing and Control*, **2015**, 16, 61-67	4.9	17
2	Accuracy and optimization of a subcutaneous insulin model for less acute critical care patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 4435-8	0.9	
1	Evaluation of a plasma insulin model for glycaemic control in intensive care. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 4009-12	0.9	1