

Michael D Byrne

List of Publications by Year in descending order

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43
papers

3,252
citations

623734

14
h-index

414414

32
g-index

43
all docs

43
docs citations

43
times ranked

2011
citing authors

#	ARTICLE	IF	CITATIONS
1	Velocity-Domain Motion Quality Measures for Surgical Performance Evaluation and Feedback. Journal of Medical Devices, Transactions of the ASME, 2021, 15, .	0.7	2
2	Voter Verification of Ballot Marking Device Ballots Is a Two-Part Question: Can They? Mostly, They Can. Do They? Mostly, They Don't. Election Law Journal: Rules, Politics, and Policy, 2021, 20, 243-253.	0.6	4
3	Comparing Manual and Robotic-Assisted Carotid Artery Stenting Using Motion-Based Performance Metrics. , 2021, 2021, 1388-1391.		1
4	Towards Automated Performance Assessment using Velocity-based Motion Quality Metrics. , 2020, , .		2
5	Expert Surgeons Can Smoothly Control Robotic Tools With a Discrete Control Interface. IEEE Transactions on Human-Machine Systems, 2019, 49, 388-394.	3.5	12
6	Toward improved surgical training: Delivering smoothness feedback using haptic cues. , 2018, , .		12
7	Toward training surgeons with motion-based feedback: Initial validation of smoothness as a measure of motor learning. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1531-1535.	0.3	6
8	The Importance of Psychological Science in a Voter's Ability to Cast a Vote. Current Directions in Psychological Science, 2016, 25, 467-473.	5.3	2
9	Comparing vector-based and Bayesian memory models using large-scale datasets: User-generated hashtag and tag prediction on Twitter and Stack Overflow.. Psychological Methods, 2016, 21, 542-565.	3.5	5
10	Smoothness of surgical tool tip motion correlates to skill in endovascular tasks. IEEE Transactions on Human-Machine Systems, 2016, 46, 647-659.	3.5	41
11	A Bayesian approach to predicting website revisitation on mobile phones. International Journal of Human Computer Studies, 2015, 83, 43-50.	5.6	3
12	Toward More Usable Electronic Voting. Human Factors, 2014, 56, 973-985.	3.5	8
13	Identifying Successful Motor Task Completion via Motion-Based Performance Metrics. IEEE Transactions on Human-Machine Systems, 2014, 44, 139-145.	3.5	13
14	Computational Cognitive Modeling of Interactive Performance. , 2013, , .		1
15	Unified theories of cognition. Wiley Interdisciplinary Reviews: Cognitive Science, 2012, 3, 431-438.	2.8	10
16	Post-Election Auditing: Effects of Procedure and Ballot Type on Manual Counting Accuracy, Efficiency, and Auditor Satisfaction and Confidence. Election Law Journal: Rules, Politics, and Policy, 2012, 11, 36-51.	0.6	9
17	An ACT-R Model of Commercial Jetliner Taxiing. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 831-835.	0.3	3
18	A Preliminary ACT-R Model of a Continuous Motor Task. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1037-1041.	0.3	1

#	ARTICLE	IF	CITATIONS
19	A History and Primer of Human Performance Modeling. <i>Reviews of Human Factors and Ergonomics</i> , 2009, 5, 225-263.	0.5	29
20	Using Computational Cognitive Modeling to Predict Dual-Task Performance With Sleep Deprivation. <i>Human Factors</i> , 2009, 51, 251-260.	3.5	19
21	Cue effectiveness in mitigating postcompletion errors in a routine procedural task. <i>International Journal of Human Computer Studies</i> , 2008, 66, 217-232.	5.6	42
22	Fitts' Law Predictions with an Alternative Pointing Device (Wiimote®). <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 1321-1325.	0.3	7
23	Effects of Frequency Sorting Towards Finding Optimal Organizations of Hierarchical File Structures. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2008, 52, 945-949.	0.3	0
24	Where no interface has gone before. , 2008, , .		0
25	Electronic voting machines versus traditional methods. , 2008, , .		34
26	Usability of voting systems. , 2007, , .		41
27	Evaluating Systematic Error Predictions in a Routine Procedural Task. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2007, 51, 817-821.	0.3	0
28	Adaptive but non-optimal visual search behavior with highlighted displays. <i>Cognitive Systems Research</i> , 2007, 8, 182-191.	2.7	11
29	Local Theories versus Comprehensive Architectures. , 2007, , 430-444.		1
30	Task Structure and Postcompletion Error in the Execution of a Routine Procedure. <i>Human Factors</i> , 2006, 48, 627-638.	3.5	27
31	Why opening a door is as easy as eating an apple: A reply to Thompson-Schill and Botvinick (2006). <i>Psychonomic Bulletin and Review</i> , 2006, 13, 409-411.	2.8	11
32	Measuring the Usability of Paper Ballots: Efficiency, Effectiveness, and Satisfaction. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2006, 50, 2547-2551.	0.3	28
33	Learning to achieve perfect timesharing: Architectural implications of Hazeltine, Teague, and Ivry (2002).. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2005, 31, 749-761.	0.9	58
34	Using Computational Cognitive Modeling to Diagnose Possible Sources of Aviation Error. <i>The International Journal of Aviation Psychology</i> , 2005, 15, 135-155.	0.7	70
35	Human Performance Models of Pilot Behavior. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2005, 49, 1109-1113.	0.3	6
36	A Closed-Loop, Act-R Approach to Modeling Approach and Landing with and without Synthetic Vision System (SVS) Technology. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2004, 48, 2111-2115.	0.3	10

#	ARTICLE	IF	CITATIONS
37	Unintended effects. , 2004, , .		17
38	An Integrated Theory of the Mind.. Psychological Review, 2004, 111, 1036-1060.	3.8	2,226
39	Returning Human Factors to an Engineering Discipline: Expanding the Science Base through a New Generation of Quantitative Methods - Preface to the Special Section. Human Factors, 2003, 45, 1-4.	3.5	28
40	Modeling icon search in ACT-R/PM. Cognitive Systems Research, 2002, 3, 25-33.	2.7	45
41	Serial modules in parallel: The psychological refractory period and perfect time-sharing.. Psychological Review, 2001, 108, 847-869.	3.8	147
42	ACT-R/PM and menu selection: applying a cognitive architecture to HCI. International Journal of Human Computer Studies, 2001, 55, 41-84.	5.6	152
43	A Working Memory Model of a Common Procedural Error. Cognitive Science, 1997, 21, 31-61.	1.7	108