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	An Integrated Theory of the Mind.. Psychological Review, 2004, 111, 1036-1060.	3.8	2,226
2	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
3	Serial modules in parallel: The psychological refractory period and perfect time-sharing.. Psychological Review, 2001, 108, 847-869.	3.8	147
4	A Working Memory Model of a Common Procedural Error. Cognitive Science, 1997, 21, 31-61.	1.7	108
5	Using Computational Cognitive Modeling to Diagnose Possible Sources of Aviation Error. The International Journal of Aviation Psychology, 2005, 15, 135-155.	0.7	70
6	Learning to achieve perfect timesharing: Architectural implications of Hazeltine, Teague, and Ivry (2002).. Journal of Experimental Psychology: Human Perception and Performance, 2005, 31, 749-761.	0.9	58
7	Modeling icon search in ACT-R/PM. Cognitive Systems Research, 2002, 3, 25-33.	2.7	45
8	Cue effectiveness in mitigating postcompletion errors in a routine procedural task. International Journal of Human Computer Studies, 2008, 66, 217-232.	5.6	42
9	Usability of voting systems. , 2007, , .		41
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	Electronic voting machines versus traditional methods. , 2008, , .		34
12	A History and Primer of Human Performance Modeling. Reviews of Human Factors and Ergonomics, 2009, 5, 225-263.	0.5	29
13	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
14	Measuring the Usability of Paper Ballots: Efficiency, Effectiveness, and Satisfaction. Proceedings of the Human Factors and Ergonomics Society, 2006, 50, 2547-2551.	0.3	28
15	Task Structure and Postcompletion Error in the Execution of a Routine Procedure. Human Factors, 2006, 48, 627-638.	3.5	27
16	Using Computational Cognitive Modeling to Predict Dual-Task Performance With Sleep Deprivation. Human Factors, 2009, 51, 251-260.	3.5	19
17	Unintended effects. , 2004, , .		17
18	Identifying Successful Motor Task Completion via Motion-Based Performance Metrics. IEEE Transactions on Human-Machine Systems, 2014, 44, 139-145.	3.5	13

#	Article	IF	Citations
19	Toward improved surgical training: Delivering smoothness feedback using haptic cues. , 2018, , .		12
20	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
21	Why opening a door is as easy as eating an apple: A reply to Thompson-Schill and Botvinick (2006). Psychonomic Bulletin and Review, 2006, 13, 409-411.	2.8	11
22	Adaptive but non-optimal visual search behavior with highlighted displays. Cognitive Systems Research, 2007, 8, 182-191.	2.7	11
23	A Closed-Loop, Act-R Approach to Modeling Approach and Landing with and without Synthetic Vision System (SVS) Technology. Proceedings of the Human Factors and Ergonomics Society, 2004, 48, 2111-2115.	0.3	10
24	Unified theories of cognition. Wiley Interdisciplinary Reviews: Cognitive Science, 2012, 3, 431-438.	2.8	10
25	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
26	Toward More Usable Electronic Voting. Human Factors, 2014, 56, 973-985.	3.5	8
27	Fitts' Law Predictions with an Alternative Pointing Device (WiimoteÂ®). Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 1321-1325.	0.3	7
28	Human Performance Models of Pilot Behavior. Proceedings of the Human Factors and Ergonomics Society, 2005, 49, 1109-1113.	0.3	6
29	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
30	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
31	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
32	An ACT-R Model of Commercial Jetliner Taxiing. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 831-835.	0.3	3
33	A Bayesian approach to predicting website revisitation on mobile phones. International Journal of Human Computer Studies, 2015, 83, 43-50.	5.6	3
34	The Importance of Psychological Science in a Voterâ€™s Ability to Cast a Vote. Current Directions in Psychological Science, 2016, 25, 467-473.	5.3	2
35	Velocity-Domain Motion Quality Measures for Surgical Performance Evaluation and Feedback. Journal of Medical Devices, Transactions of the ASME, 2021, 15, .	0.7	2
36	Towards Automated Performance Assessment using Velocity-based Motion Quality Metrics. , 2020, , .		2

#	Article	IF	Citations
37	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
38	Computational Cognitive Modeling of Interactive Performance. , 2013, , .		1
39	Local Theories versus Comprehensive Architectures. , 2007, , 430-444.		1
40	Comparing Manual and Robotic-Assisted Carotid Artery Stenting Using Motion-Based Performance Metrics. , 2021, 2021, 1388-1391.		1
41	Evaluating Systematic Error Predictions in a Routine Procedural Task. Proceedings of the Human Factors and Ergonomics Society, 2007, 51, 817-821.	0.3	0
42	Effects of Frequency Sorting Towards Finding Optimal Organizations of Hierarchal File Structures. Proceedings of the Human Factors and Ergonomics Society, 2008, 52, 945-949.	0.3	0
43	Where no interface has gone before. , 2008, , .		0