Sebastien Tremblay

List of Publications by Year
in descending order

80 papers	1,068 citations	516710 16 h-index	501196 28 g-index
83 all docs	83 docs citations	83 times ranked	925 citing authors

#	Article	IF	Citations
1	Failure to Detect Critical Auditory Alerts in the Cockpit. Human Factors, 2014, 56, 631-644.	3.5	171
2	Cognitive conflict in human–automation interactions: A psychophysiological study. Applied Ergonomics, 2012, 43, 588-595.	3.1	68
3	Team coaching and innovation in work teams. Leadership and Organization Development Journal, 2013, 34, 344-364.	3.0	64
4	Attentional costs and failures in air traffic control notifications. Ergonomics, 2014, 57, 1817-1832.	2.1	48
5	See no evil: Cognitive challenges of security surveillance and monitoring.. Journal of Applied Research in Memory and Cognition, 2017, 6, 230-243.	1.1	45
6	Background Sound Impairs Interruption Recovery in Dynamic Task Situations: Procedural Conflict?. Applied Cognitive Psychology, 2014, 28, 10-21.	1.6	32
7	Nonexplicit Change Detection in Complex Dynamic Settings. Human Factors, 2012, 54, 996-1007.	3.5	29
8	The Role of Cognitive and Perceptual Loads in Inattentional Deafness. Frontiers in Human Neuroscience, 2016, 10, 344.	2.0	27
9	Momentary lapse of control: A cognitive continuum approach to understanding and mitigating perseveration in human error. Neuroscience and Biobehavioral Reviews, 2019, 100, 252-262.	6.1	27
10	WAUC: A Multi-Modal Database for Mental Workload Assessment Under Physical Activity. Frontiers in Neuroscience, 2020, 14, 549524.	2.8	27
11	Decision support and vulnerability to interruption in a dynamic multitasking environment. International Journal of Human Computer Studies, 2015, 79, 106-117.	5.6	26
12	The diagnosticity of psychophysiological signatures: Can we disentangle mental workload from acute stress with ECG and fNIRS?. International Journal of Psychophysiology, 2019, 146, 139-147.	1.0	26
13	Vulnerability to the Irrelevant Sound Effect in Adult ADHD. Journal of Attention Disorders, 2016, 20, 306-316.	2.6	25
14	Perceptual-motor determinants of auditory-verbal serial short-term memory. Journal of Memory and Language, 2016, 90, 126-146.	2.1	22
15	Adaptive Filtering for Improved EEG-Based Mental Workload Assessment of Ambulant Users. Frontiers in Neuroscience, 2021, 15, 611962.	2.8	22
16	Asymmetric binding in serial memory for verbal and spatial information. Memory and Cognition, 2013, 41, 378-391.	1.6	18
17	Implementation and Evaluation of a Wiki Involving Multiple Stakeholders Including Patients in the Promotion of Best Practices in Trauma Care: The WikiTrauma Interrupted Time Series Protocol. JMIR Research Protocols, 2015, 4, e21.	1.0	17
18	Attentional bias, distractibility and short-term memory in anxiety. Anxiety, Stress and Coping, 2013, 26, 293-313.	2.9	16

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19	Role Variability in Self-Organizing Teams Working in Crisis Management. Small Group Research, 2017, 48, 62-92.	2.7	16
20	PASS: A Multimodal Database of Physical Activity and Stress for Mobile Passive Body/ Brain-Computer Interface Research. Frontiers in Neuroscience, 2020, 14, 542934.	2.8	16
21	Missing Critical Auditory Alarms in Aeronautics: Evidence for Inattentional Deafness?. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1639-1643.	0.3	15
22	Perceived shared understanding in teams: The motivational effect of being â€˜on the same pageâ€™. British Journal of Psychology, 2015, 106, 468-486.	2.3	14
23	Biometrics and classifier fusion to predict the fun-factor in video gaming. , 2016, , .		14
24	Judgment Analysis in a Dynamic Multitask Environment: Capturing Nonlinear Policies Using Decision Trees. Journal of Cognitive Engineering and Decision Making, 2017, 11, 122-135.	2.3	14
25	Multi-Scale Heart Beat Entropy Measures for Mental Workload Assessment of Ambulant Users. Entropy, 2019, 21, 783.	2.2	13
26	Disruption of verbal-spatial serial memory by extraneous air-traffic speech.. Journal of Applied Research in Memory and Cognition, 2012, 1, 73-79.	1.1	11
27	Supporting dynamic change detection: using the right tool for the task. Cognitive Research: Principles and Implications, 2016, 1, 32.	2.0	11
28	Forewarning interruptions in dynamic settings: Can prevention bolster recovery?. Journal of Experimental Psychology: Applied, 2019, 25, 674-694.	1.2	11
29	Prediction of Stress and Mental Workload during Police Academy Training Using Ultra-Short-Term Heart Rate Variability and Breathing Analysis. , 2020, 2020, 4530-4533.		10
30	Cognitive shadow: A policy capturing tool to support naturalistic decision making. , 2013, , .		9
31	A Cognitive and Affective Neuroergonomics Approach to Game Design. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1075-1079.	0.3	9
32	The CSSS Microworld. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 265-269.	0.3	9
33	Performance Comparison of Automated EEG Enhancement Algorithms for Mental Workload Assessment of Ambulant Users. , 2019, , .		9
34	A Multimodal Approach to Improve the Robustness of Physiological Stress Prediction During Physical Activity. , 2019, , .		9
35	Judgment Analysis for Real-Time Decision Support Using the Cognitive Shadow Policy-Capturing System. Advances in Intelligent Systems and Computing, 2020, , 78-83.	0.6	9
36	High Rate of Inattentional Deafness in Simulated Air Traffic Control Tasks. Procedia Manufacturing, 2015, 3, 5169-5175.	1.9	8

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37	Support Requirements for Cognitive Readiness in Complex Operations. Journal of Cognitive Engineering and Decision Making, 2012, 6, 393-426.	2.3	7
38	The LABY Microworld. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1038-1042.	0.3	7
39	The Benefits and the Costs of Using Auditory Warning Messages in Dynamic Decision-Making Settings. Journal of Cognitive Engineering and Decision Making, 2018, 12, 112-130.	2.3	7
40	The resilience of verbal sequence learning: Evidence from the Hebb repetition effect.. Journal of Experimental Psychology: Learning Memory and Cognition, 2019, 45, 17-25.	0.9	7
41	Real-Time Gaze-Aware Cognitive Support System for Security Surveillance. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1145-1149.	0.3	7
42	Pupil Dilation and Eye Movements Can Reveal Upcoming Choice in Dynamic Decision-Making. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 210-214.	0.3	6
43	Atypical Visual Display for Monitoring Multiple CCTV Feeds. , 2015, , .		6
44	Attitudes of pediatric intensive care unit physicians towards the use of cognitive aids: a qualitative study. BMC Medical Informatics and Decision Making, 2016, 16, 53.	3.0	6
45	Affective Computing Out-of-The-Lab: The Cost of Low Cost. , 2019, , .		6
46	Gaze-Aware Cognitive Assistant for Multiscreen Surveillance. Advances in Intelligent Systems and Computing, 2018, , 230-236.	0.6	6
47	Comparing Two Decision Support Modes Using the Cognitive Shadow Online Policy-Capturing System. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1125-1129.	0.3	5
48	Movement Artifact-Robust Mental Workload Assessment During Physical Activity Using Multi-Sensor Fusion. , 2020, , .		5
49	Supporting Change Detection in Complex Dynamic Situations: Does the CHEX Serve its Purpose?. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1708-1712.	0.3	4
50	Framework for the Analysis of Information Relevance (FAIR). , 2012, , .		4
51	Don't overlook the human! Applying the principles of cognitive systems engineering to the design of intelligent video surveillance systems. , 2015, , .		4
52	Effects of a Warning on Interruption Recovery in Dynamic Settings. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1304-1308.	0.3	4
53	Pip and Pop. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 284-288.	0.3	4
54	A cognitive prosthesis for complex decision-making. Applied Ergonomics, 2017, 58, 349-360.	3.1	4

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55	FUNii: The Physio-Behavioural Adaptive Video Game. Lecture Notes in Computer Science, 2019, , 14-28.	1.3	4
56	Fusion of Spectral and Spectro-Temporal EEG Features for Mental Workload Assessment Under Different Levels of Physical Activity. , 2019, , .		4
57	The FUNii Database: A Physiological, Behavioral, Demographic and Subjective Video Game Database for Affective Gaming and Player Experience Research. , 2019, , .		4
58	A Systematic Assessment of Operational Metrics for Modeling Operator Functional State. , 2016, , .		4
59	Neither separate nor equivalent: Relationships between feature representations within bound objects. Acta Psychologica, 2013, 144, 279-290.	1.5	3
60	Testing usability and trainability of indirect touch interaction: perspective for the next generation of air traffic control systems. Ergonomics, 2014, 57, 1616-1627.	2.1	3
61	Toward Mental Workload Measurement Using Multimodal EEGâ€"fNIRS Monitoring. , 2018, , 245-246.		3
62	Priority or Parity? Scanning Strategies and Detection Performance of Novice Operators in Urban Surveillance. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1113-1117.	0.3	3
63	Mobile Real-Time Eye-Tracking for Gaze-Aware Security Surveillance Support Systems. Advances in Intelligent Systems and Computing, 2020, , 201-207.	0.6	3
64	Effective Temporal Awareness Support can Hinder Change Detection. Procedia Manufacturing, 2015, 3, 5293-5300.	1.9	2
65	Capturing Non-linear Judgment Policies Using Decision Tree Models of Classification Behavior. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 831-835.	0.3	2
66	Multi-criteria assessment of a whole-of-government planning methodology using MYRIAD. , 2015, , .		2
67	The critical nature of debriefing in highâ€fidelity simulationâ€based training for improving team communication in emergency resuscitation. Applied Cognitive Psychology, 2018, 32, 727-738.	1.6	2
68	Who Can Best Find Waldo? Exploring Individual Differences that Bolster Performance in a Security Surveillance Microworld. Applied Cognitive Psychology, 2021, 35, 1044.	1.6	2
69	The Impact of Communication Training in High Fidelity Simulation of Emergency ICU Resuscitation. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 956-960.	0.3	1
70	Time-oriented visualization and anticipation. , 2012, , .		1
71	Cognitive load management and architectural design outcomes. International Journal of Design Creativity and Innovation, 2013, 1, 160-176.	1.2	1
72	Comparing Naval Decision Support Technologies Using Decision Models, Process Tracing and Error Analysis. Proceedings of the Human Factors and Ergonomics Society, 2017, 61, 1178-1182.	0.3	1

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73	Mental Workload Assessment During Physical Activity Using Non-linear Movement Artefact Robust Electroencephalography Features. , 2019, , .		1
74	The Impact of Visual Scan Strategies on Active Surveillance Performance. , 2018, , 283-284.		0
75	Toward an Online Index of the Attentional Response to Auditory Alarms in the Cockpit. , 2018, , 289-290.		0
76	Assessing Differences in Emotional Expressivity Between Expert and Non Expert Video Game Players Using Facial Electromyography. , 2018, , 313-314.		0
77	Toward Adaptive Training Based on Bio-behavioral Monitoring. Lecture Notes in Computer Science, 2018, , 34-45.	1.3	0
78	Y A-T-IL UN PILOTE DANS L'AVION?. , 2019, , 111-134.		0
79	Bio-behavioral Modeling of Workload and Performance. Lecture Notes in Computer Science, 2019, , 23-38.	1.3	0
80	Designing an Explainable Predictive Policing Model to Forecast Police Workforce Distribution in Cities. Canadian Journal of Criminology and Criminal Justice, 2020, 62, 52-76.	0.5	0