

# Sebastien Tremblay

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Adaptive Filtering for Improved EEG-Based Mental Workload Assessment of Ambulant Users. <i>Frontiers in Neuroscience</i> , 2021, 15, 611962.	2.8	22
2	Who Can Best Find Waldo? Exploring Individual Differences that Bolster Performance in a Security Surveillance Microworld. <i>Applied Cognitive Psychology</i> , 2021, 35, 1044.	1.6	2
3	WAUC: A Multi-Modal Database for Mental Workload Assessment Under Physical Activity. <i>Frontiers in Neuroscience</i> , 2020, 14, 549524.	2.8	27
4	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
5	PASS: A Multimodal Database of Physical Activity and Stress for Mobile Passive Body/ Brain-Computer Interface Research. <i>Frontiers in Neuroscience</i> , 2020, 14, 542934.	2.8	16
6	Mobile Real-Time Eye-Tracking for Gaze-Aware Security Surveillance Support Systems. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 201-207.	0.6	3
7	Real-Time Gaze-Aware Cognitive Support System for Security Surveillance. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2020, 64, 1145-1149.	0.3	7
8	Judgment Analysis for Real-Time Decision Support Using the Cognitive Shadow Policy-Capturing System. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 78-83.	0.6	9
9	Comparing Two Decision Support Modes Using the Cognitive Shadow Online Policy-Capturing System. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2020, 64, 1125-1129.	0.3	5
10	Designing an Explainable Predictive Policing Model to Forecast Police Workforce Distribution in Cities. <i>Canadian Journal of Criminology and Criminal Justice</i> , 2020, 62, 52-76.	0.5	0
11	Movement Artifact-Robust Mental Workload Assessment During Physical Activity Using Multi-Sensor Fusion. , 2020, , .		5
12	Multi-Scale Heart Beat Entropy Measures for Mental Workload Assessment of Ambulant Users. <i>Entropy</i> , 2019, 21, 783.	2.2	13
13	Performance Comparison of Automated EEG Enhancement Algorithms for Mental Workload Assessment of Ambulant Users. , 2019, , .		9
14	FUNii: The Physio-Behavioural Adaptive Video Game. <i>Lecture Notes in Computer Science</i> , 2019, , 14-28.	1.3	4
15	Fusion of Spectral and Spectro-Temporal EEG Features for Mental Workload Assessment Under Different Levels of Physical Activity. , 2019, , .		4
16	The diagnosticity of psychophysiological signatures: Can we disentangle mental workload from acute stress with ECG and fNIRS?. <i>International Journal of Psychophysiology</i> , 2019, 146, 139-147.	1.0	26
17	Momentary lapse of control: A cognitive continuum approach to understanding and mitigating perseveration in human error. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 100, 252-262.	6.1	27
18	The FUNii Database: A Physiological, Behavioral, Demographic and Subjective Video Game Database for Affective Gaming and Player Experience Research. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	Affective Computing Out-of-The-Lab: The Cost of Low Cost. , 2019, , .		6
20	A Multimodal Approach to Improve the Robustness of Physiological Stress Prediction During Physical Activity. , 2019, , .		9
21	Mental Workload Assessment During Physical Activity Using Non-linear Movement Artefact Robust Electroencephalography Features. , 2019, , .		1
22	Forewarning interruptions in dynamic settings: Can prevention bolster recovery?. Journal of Experimental Psychology: Applied, 2019, 25, 674-694.	1.2	11
23	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
24	Y A-T-IL UN PILOTE DANS L'AVION?. , 2019, , 111-134.		0
25	Bio-behavioral Modeling of Workload and Performance. Lecture Notes in Computer Science, 2019, , 23-38.	1.3	0
26	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
27	The critical nature of debriefing in high-fidelity simulation-based training for improving team communication in emergency resuscitation. Applied Cognitive Psychology, 2018, 32, 727-738.	1.6	2
28	Toward Mental Workload Measurement Using Multimodal EEG-fNIRS Monitoring. , 2018, , 245-246.		3
29	The Impact of Visual Scan Strategies on Active Surveillance Performance. , 2018, , 283-284.		0
30	Toward an Online Index of the Attentional Response to Auditory Alarms in the Cockpit. , 2018, , 289-290.		0
31	Assessing Differences in Emotional Expressivity Between Expert and Non Expert Video Game Players Using Facial Electromyography. , 2018, , 313-314.		0
32	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
33	Toward Adaptive Training Based on Bio-behavioral Monitoring. Lecture Notes in Computer Science, 2018, , 34-45.	1.3	0
34	Gaze-Aware Cognitive Assistant for Multiscreen Surveillance. Advances in Intelligent Systems and Computing, 2018, , 230-236.	0.6	6
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	A cognitive prosthesis for complex decision-making. <i>Applied Ergonomics</i> , 2017, 58, 349-360.	3.1	4
38	Judgment Analysis in a Dynamic Multitask Environment: Capturing Nonlinear Policies Using Decision Trees. <i>Journal of Cognitive Engineering and Decision Making</i> , 2017, 11, 122-135.	2.3	14
39	Role Variability in Self-Organizing Teams Working in Crisis Management. <i>Small Group Research</i> , 2017, 48, 62-92.	2.7	16
40	The Role of Cognitive and Perceptual Loads in Inattentional Deafness. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 344.	2.0	27
41	The CSSS Microworld. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 265-269.	0.3	9
42	Attitudes of pediatric intensive care unit physicians towards the use of cognitive aids: a qualitative study. <i>BMC Medical Informatics and Decision Making</i> , 2016, 16, 53.	3.0	6
43	Biometrics and classifier fusion to predict the fun-factor in video gaming. , 2016, , .		14
44	Effects of a Warning on Interruption Recovery in Dynamic Settings. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 1304-1308.	0.3	4
45	Pip and Pop. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2016, 60, 284-288.	0.3	4
46	Supporting dynamic change detection: using the right tool for the task. <i>Cognitive Research: Principles and Implications</i> , 2016, 1, 32.	2.0	11
47	Perceptual-motor determinants of auditory-verbal serial short-term memory. <i>Journal of Memory and Language</i> , 2016, 90, 126-146.	2.1	22
48	Vulnerability to the Irrelevant Sound Effect in Adult ADHD. <i>Journal of Attention Disorders</i> , 2016, 20, 306-316.	2.6	25
49	A Systematic Assessment of Operational Metrics for Modeling Operator Functional State. , 2016, , .		4
50	High Rate of Inattentional Deafness in Simulated Air Traffic Control Tasks. <i>Procedia Manufacturing</i> , 2015, 3, 5169-5175.	1.9	8
51	Effective Temporal Awareness Support can Hinder Change Detection. <i>Procedia Manufacturing</i> , 2015, 3, 5293-5300.	1.9	2
52	A Cognitive and Affective Neuroergonomics Approach to Game Design. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 1075-1079.	0.3	9
53	Pupil Dilation and Eye Movements Can Reveal Upcoming Choice in Dynamic Decision-Making. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 210-214.	0.3	6
54	Capturing Non-linear Judgment Policies Using Decision Tree Models of Classification Behavior. <i>Proceedings of the Human Factors and Ergonomics Society</i> , 2015, 59, 831-835.	0.3	2

#	ARTICLE	IF	CITATIONS
55	Don't overlook the human! Applying the principles of cognitive systems engineering to the design of intelligent video surveillance systems. , 2015, , .		4
56	Perceived shared understanding in teams: The motivational effect of being "on the same page". British Journal of Psychology, 2015, 106, 468-486.	2.3	14
57	Multi-criteria assessment of a whole-of-government planning methodology using MYRIAD. , 2015, , .		2
58	Decision support and vulnerability to interruption in a dynamic multitasking environment. International Journal of Human Computer Studies, 2015, 79, 106-117.	5.6	26
59	Atypical Visual Display for Monitoring Multiple CCTV Feeds. , 2015, , .		6
60	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
61	Attentional costs and failures in air traffic control notifications. Ergonomics, 2014, 57, 1817-1832.	2.1	48
62	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
63	Background Sound Impairs Interruption Recovery in Dynamic Task Situations: Procedural Conflict?. Applied Cognitive Psychology, 2014, 28, 10-21.	1.6	32
64	Failure to Detect Critical Auditory Alerts in the Cockpit. Human Factors, 2014, 56, 631-644.	3.5	171
65	The LABY Microworld. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1038-1042.	0.3	7
66	Asymmetric binding in serial memory for verbal and spatial information. Memory and Cognition, 2013, 41, 378-391.	1.6	18
67	Neither separate nor equivalent: Relationships between feature representations within bound objects. Acta Psychologica, 2013, 144, 279-290.	1.5	3
68	Cognitive shadow: A policy capturing tool to support naturalistic decision making. , 2013, , .		9
69	Cognitive load management and architectural design outcomes. International Journal of Design Creativity and Innovation, 2013, 1, 160-176.	1.2	1
70	Team coaching and innovation in work teams. Leadership and Organization Development Journal, 2013, 34, 344-364.	3.0	64
71	Attentional bias, distractibility and short-term memory in anxiety. Anxiety, Stress and Coping, 2013, 26, 293-313.	2.9	16
72	Support Requirements for Cognitive Readiness in Complex Operations. Journal of Cognitive Engineering and Decision Making, 2012, 6, 393-426.	2.3	7

#	ARTICLE	IF	CITATIONS
73	Nonexplicit Change Detection in Complex Dynamic Settings. Human Factors, 2012, 54, 996-1007.	3.5	29
74	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
75	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
76	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
77	Framework for the Analysis of Information Relevance (FAIR). , 2012, , .		4
78	Time-oriented visualization and anticipation. , 2012, , .		1
79	Cognitive conflict in human-automation interactions: A psychophysiological study. Applied Ergonomics, 2012, 43, 588-595.	3.1	68
80	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