# FranÃ§ois Vachon

List of Publications by Year
in descending order



| 84 | 1,805 | 304743 | 302126 |
|---|---|---|---|
| papers | citations | 22 h-index | 39 g-index |

| 88 | 88 | 88 | 1111 |
|---|---|---|---|
| all docs | docs citations | times ranked | 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 | Disruption of short-term memory by changing and deviant sounds: Support for a duplex-mechanism account of auditory distraction.. Journal of Experimental Psychology: Learning Memory and Cognition, 2007, 33, 1050-1061. | 0.9 | 166 |
| 3 | Cognitive control of auditory distraction: Impact of task difficulty, foreknowledge, and working memory capacity supports duplex-mechanism account.. Journal of Experimental Psychology: Human Perception and Performance, 2013, 39, 539-553. | 0.9 | 133 |
| 4 | Auditory Attentional Capture During Serial Recall: Violations at Encoding of an Algorithm-Based Neural Model?. Journal of Experimental Psychology: Learning Memory and Cognition, 2005, 31, 736-749. | 0.9 | 118 |
| 5 | Broken expectations: Violation of expectancies, not novelty, captures auditory attention.. Journal of Experimental Psychology: Learning Memory and Cognition, 2012, 38, 164-177. | 0.9 | 77 |
| 6 | Cognitive conflict in humanâ€“automation interactions: A psychophysiological study. Applied Ergonomics, 2012, 43, 588-595. | 3.1 | 68 |
| 7 | Attentional and perceptual sources of the auditory attentional blink. Perception & Psychophysics, 2005, 67, 195-208. | 2.3 | 53 |
| 8 | Attentional capture by deviant sounds: A noncontingent form of auditory distraction?. Journal of Experimental Psychology: Learning Memory and Cognition, 2017, 43, 622-634. | 0.9 | 51 |
| 9 | The impact of luminance on tonic and phasic pupillary responses to sustained cognitive load. International Journal of Psychophysiology, 2017, 112, 40-45. | 1.0 | 50 |
| 10 | Attentional costs and failures in air traffic control notifications. Ergonomics, 2014, 57, 1817-1832. | 2.1 | 48 |
| 11 | 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 |
| 12 | Distinct electrophysiological indices of maintenance in auditory and visual short-term memory. Neuropsychologia, 2013, 51, 2939-2952. | 1.6 | 36 |
| 13 | Eyes have ears: Indexing the orienting response to sound using pupillometry. International Journal of Psychophysiology, 2018, 123, 152-162. | 1.0 | 35 |
| 14 | Background Sound Impairs Interruption Recovery in Dynamic Task Situations: Procedural Conflict?. Applied Cognitive Psychology, 2014, 28, 10-21. | 1.6 | 32 |
| 15 | Brain activity is related to individual differences in the number of items stored in auditory short-term memory for pitch: Evidence from magnetoencephalography. NeuroImage, 2014, 94, 96-106. | 4.2 | 32 |
| 16 | Nonexplicit Change Detection in Complex Dynamic Settings. Human Factors, 2012, 54, 996-1007. | 3.5 | 29 |
| 17 | Postcategorical auditory distraction in short-term memory: Insights from increased task load and task type.. Journal of Experimental Psychology: Learning Memory and Cognition, 2018, 44, 882-897. | 0.9 | 29 |
| 18 | Decision support and vulnerability to interruption in a dynamic multitasking environment. International Journal of Human Computer Studies, 2015, 79, 106-117. | 5.6 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Task-set reconfiguration suspends perceptual processing: Evidence from semantic priming during the attentional blink.. Journal of Experimental Psychology: Human Perception and Performance, 2007, 33, 330-347. | 0.9 | 25 |
| 20 | Dealing With Task Interruptions in Complex Dynamic Environments. Human Factors, 2012, 54, 70-83. | 3.5 | 25 |
| 21 | How the deployment of visual attention modulates auditory distraction. Attention, Perception, and Psychophysics, 2020, 82, 350-362. | 1.3 | 25 |
| 22 | Impaired semantic processing during taskâ€set switching: Evidence from the N400 in rapid serial visual presentation. Psychophysiology, 2011, 48, 102-111. | 2.4 | 24 |
| 23 | Evaluation of head-free eye tracking as an input device for air traffic control. Ergonomics, 2013, 56, 246-255. | 2.1 | 24 |
| 24 | The automaticity of semantic processing revisited: Auditory distraction by a categorical deviation.. Journal of Experimental Psychology: General, 2020, 149, 1360-1397. | 2.1 | 24 |
| 25 | Increased Distractibility in Schizotypy: Independent of Individual Differences in Working Memory Capacity?. Quarterly Journal of Experimental Psychology, 2017, 70, 565-578. | 1.1 | 23 |
| 26 | Multitasking in the military: Cognitive consequences and potential solutions. Applied Cognitive Psychology, 2018, 32, 429-439. | 1.6 | 22 |
| 27 | When does between-sequence phonological similarity promote irrelevant sound disruption?. Journal of Experimental Psychology: Learning Memory and Cognition, 2008, 34, 243-248. | 0.9 | 21 |
| 28 | Electrophysiological correlates of the maintenance of the representation of pitch objects in acoustic shortâ€term memory. Psychophysiology, 2011, 48, 1500-1509. | 2.4 | 21 |
| 29 | Is auditory distraction by changing-state and deviant sounds underpinned by the same mechanism? Evidence from pupillometry. Biological Psychology, 2019, 141, 64-74. | 2.2 | 21 |
| 30 | A Cognitive and Holistic Approach to Developing Metrics for Decision Support Incommand and Control. Advances in Human Factors and Ergonomics Series, 2010, , 65-75. | 0.2 | 21 |
| 31 | Loadâ€dependent Brain Activity Related to Acoustic Shortâ€term Memory for Pitch. Annals of the New York Academy of Sciences, 2009, 1169, 273-277. | 3.8 | 19 |
| 32 | Auditory Attentional Blink: Masking the Second Target is Necessary, Delayed Masking is Sufficient.. Canadian Journal of Experimental Psychology, 2005, 59, 279-286. | 0.8 | 18 |
| 33 | Modality-specific and amodal sources of interference in the attentional blink. Perception & Psychophysics, 2008, 70, 1000-1015. | 2.3 | 17 |
| 34 | Can pupillometry index auditory attentional capture in contexts of active visual processing?. Journal of Cognitive Psychology, 2018, 30, 484-502. | 0.9 | 16 |
| 35 | 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 |
| 36 | On the Automaticity of Semantic Processing during Task Switching. Journal of Cognitive Neuroscience, 2012, 24, 611-626. | 2.3 | 14 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Delayed Masking and the Auditory Attentional Blink. Experimental Psychology, 2006, 53, 182-190. | 0.7 | 12 |
| 39 | Supporting situation awareness: A tradeoff between benefits and overhead. , 2011, , . | | 12 |
| 40 | Why are background telephone conversations distracting?. Journal of Experimental Psychology: Applied, 2018, 24, 222-235. | 1.2 | 12 |
| 41 | Supporting dynamic change detection: using the right tool for the task. Cognitive Research: Principles and Implications, 2016, 1, 32. | 2.0 | 11 |
| 42 | Forewarning interruptions in dynamic settings: Can prevention bolster recovery?. Journal of Experimental Psychology: Applied, 2019, 25, 674-694. | 1.2 | 11 |
| 43 | Failure of temporal selectivity: Electrophysiological evidence for (mis)selection of distractors during the attentional blink. Psychophysiology, 2015, 52, 933-941. | 2.4 | 10 |
| 44 | Distraction by Auditory Categorical Deviations Is Unrelated to Working Memory Capacity: Further Evidence of a Distinction between Acoustic and Categorical Deviation Effects. Auditory Perception & Cognition, 2021, 4, 139-164. | 1.1 | 10 |
| 45 | The perception of concurrent sound objects in harmonic complexes impairs gap detection.. Journal of Experimental Psychology: Human Perception and Performance, 2011, 37, 727-736. | 0.9 | 9 |
| 46 | The CSSS Microworld. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 265-269. | 0.3 | 9 |
| 47 | Assessing the Role of Stimulus Novelty in the Elicitation of the Pupillary Dilation Response to Irrelevant Sound. Auditory Perception & Cognition, 2020, 3, 1-17. | 1.1 | 9 |
| 48 | The LABY Microworld. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 1038-1042. | 0.3 | 7 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | Atypical Visual Display for Monitoring Multiple CCTV Feeds. , 2015, , . | | 6 |
| 53 | Gaze-Aware Cognitive Assistant for Multiscreen Surveillance. Advances in Intelligent Systems and Computing, 2018, , 230-236. | 0.6 | 6 |
| 54 | Chatting in the face of the eyewitness: The impact of extraneous cell-phone conversation on memory for a perpetrator.. Canadian Journal of Experimental Psychology, 2017, 71, 183-190. | 0.8 | 6 |

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|---|---|---|---|
| 55 | Acoustic, and Categorical, Deviation Effects are Produced by Different Mechanisms: Evidence from Additivity and Habituation. Auditory Perception & Cognition, 2022, 5, 1-24. | 1.1 | 6 |
| 56 | Safety, stress and work zone complexity: A field study on police officers performing on-foot traffic control. Transportation Research Interdisciplinary Perspectives, 2019, 1, 100018. | 2.7 | 5 |
| 57 | Can â€˜Hebbâ€™ Be Distracted? Testing the Susceptibility of Sequence Learning to Auditory Distraction. Journal of Cognition, 2018, 2, 4. | 1.4 | 5 |
| 58 | Exploiting the Auditory Modality in Decision Support: Beneficial "Warning" Effects and Unavoidable Costs. Proceedings of the Human Factors and Ergonomics Society, 2011, 55, 1402-1406. | 0.3 | 4 |
| 59 | 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 |
| 60 | Don't overlook the human! Applying the principles of cognitive systems engineering to the design of intelligent video surveillance systems. , 2015, , . | | 4 |
| 61 | 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 |
| 62 | Pip and Pop. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 284-288. | 0.3 | 4 |
| 63 | Predicting Stress among Pedestrian Traffic Workers Using Physiological and Situational Measures. Proceedings of the Human Factors and Ergonomics Society, 2018, 62, 1262-1266. | 0.3 | 4 |
| 64 | 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 |
| 65 | 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 |
| 66 | Mobile Real-Time Eye-Tracking for Gaze-Aware Security Surveillance Support Systems. Advances in Intelligent Systems and Computing, 2020, , 201-207. | 0.6 | 3 |
| 67 | Effective Temporal Awareness Support can Hinder Change Detection. Procedia Manufacturing, 2015, 3, 5293-5300. | 1.9 | 2 |
| 68 | 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 |
| 69 | The perception of concurrent sound objects through the use of harmonic enhancement: a study of auditory attention. Attention, Perception, and Psychophysics, 2015, 77, 922-929. | 1.3 | 2 |
| 70 | Resuming a Dynamic Task Following Increasingly Long Interruptions: The Role of Working Memory and Reconstruction. Frontiers in Psychology, 2021, 12, 659451. | 2.1 | 2 |
| 71 | Capturing and Unmasking the Mask in the Auditory Attentional Blink. Experimental Psychology, 2010, 57, 346-353. | 0.7 | 2 |
| 72 | Experiential and Cognitive Predictors of Sight-Singing Performance in Music Higher Education. Journal of Research in Music Education, 2022, 70, 206-227. | 1.4 | 2 |

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|---|---|---|---|
| 73 | Does Teaming up Make You Less Vulnerable to Task Interruption?. Proceedings of the Human Factors and Ergonomics Society, 2010, 54, 1605-1609. | 0.3 | 1 |
| 74 | Time-oriented visualization and anticipation. , 2012, , . | | 1 |
| 75 | 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 |
| 76 | The mechanisms of far transfer from cognitive training: specifying the role of distraction suppression. Psychological Research, 2023, 87, 425-440. | 1.7 | 1 |
| 77 | Support of collaborative work in battlespace management: Shared (loss) of situation awareness. , 2012, , . | | 0 |
| 78 | The Impact of Visual Scan Strategies on Active Surveillance Performance. , 2018, , 283-284. | | 0 |
| 79 | Toward an Online Index of the Attentional Response to Auditory Alarms in the Cockpit. , 2018, , 289-290. | | 0 |
| 80 | Y A-T-IL UN PILOTE DANS Lâ€™AVION?. , 2019, , 111-134. | | 0 |
| 81 | Signal informativeness for sequence structure modulates human auditory cortical responses. Psychophysiology, 2021, 58, e13745. | 2.4 | 0 |
| 82 | Biais cognitifs face aux changements climatiques. Le Psycause, 2019, 9, 7-8. | 0.0 | 0 |
| 83 | ImpulsivitÃ© et distractibilitÃ© : les conversations tÃ©lÃ©phoniques en arriÃ¨re-plan sont-elles particuliÃ¨rement dÃ©rangeantes ?. Le Psycause, 2020, 10, 11-13. | 0.0 | 0 |
| 84 | Building a mental toolbox: Relationships between strategy choice and sight-singing performance in higher education. Psychology of Music, 2023, 51, 119-139. | 1.6 | 0 |