

RSVP Keyboard BCI Publication List

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This reference list of 37 peer-reviewed articles and presentations is the result of an initial 5-year translational R01, **5R01DC009834**, awarded to Oregon Health & Science University, Fried-Oken, PI, from **2/1/2009 - 1/31/2014**.

- Abdul-Malek, Y., Ourand, P., Fried-Oken, M., Helmsley, B., & Costello, J. (2010). International clinicians spotlight AAC techniques and strategies for individuals with complex communication needs. Paper presented at the *Biennial Conference of the International Society on Augmentative & Alternative Communication*, Barcelona, Spain, August, 2010.
- Akcakaya, M., Peters, B., Mooney, A., Orhan, U., Oken, B., Erdogmus, D., & Fried-Oken, M. (2014). Noninvasive brain computer interfaces for augmentative and alternative communication. *Reviews in Biomedical Engineering*, 7, 31-49.
- Ball, L.J., Fager, S., & Fried-Oken, M. (2012). Augmentative and alternative communication for people with progressive neurological disease. *Physical Medicine & Rehabilitation Clinics of North America*, 23(3), 689-699. PubMed # 22938882.
- Beckley, R., & Roark, B. (2011). Asynchronous fixed-grid scanning with dynamic codes. *Proceedings of the 2nd Workshop on Speech and Language Processing for Assistive Technologies (SLPAT)*. <http://www.aclweb.org/anthology-new/W/W11/W11-2305.pdf>
- Erdogmus, D., Hild, K.E. II, Oken, B., Roark, B., Fried-Oken, M. (2010). Initial Design of an AAC Device with Noninvasive BCI, Adaptive Language Modeling, and Rapid Serial Visual Presentation (RSVP). *Proceedings of the Fourth International BCI Meeting*, Pacific Grove, CA, May 31-June 4, 2010.
- Fager, S., Beukelman, D., Fried-Oken, M., Jakobs, T., & Baker, J. (2012). Access Interface Strategies. *Assistive Technology*, 24, 25-33. PMC # 3663592.
- Fowler, A., Roark, B., & Fried-Oken, M. (2012). Autocompletion and autodeletion in binary typing systems. *Proceedings of the 2012 Pacific Northwest Regional NLP Workshop*, Redmond, WA, May 11, 2012.
- Fowler, A., Roark, B., Orhan, U., Erdogmus, D., & Fried-Oken, M. (2013). Improved inference and autotyping in EEG-based BCI typing systems. *Proceedings of the 15th International ACM SIGACCESS Conference on Computers and Accessibility*, Bellevue, WA, Oct 21-23, 2013.
- Fried-Oken, M., Mooney, A. Oken, B., & Peters, B. (2013). Clinical screening protocol for RSVP Keyboard BCI use. *Proceedings of the Fifth International Brain-Computer Interface Meeting*, Pacific Grove, CA, June 3-7, 2013. 40-41. DOI:10.3217/978-3-85125-260-6-19
- Fried-Oken, M., Mooney, A., Peters, B., & Oken, B. (2015). A clinical screening protocol for the RSVP Keyboard™ brain computer interface. *Disability and Rehabilitation: Assistive Technology*, 10(1), 11-18. DOI:10.3109/17483107.2013.836684. NIHMSID # 521124.
- Goodrich, E., Wahbeh, H., Mooney, A., Miller, M., & Oken, B. (2014). Teaching Mindfulness Meditation to Adults with Severe Speech and Physical Impairments: An Exploratory Study.

- Haghighi, M., Akcakaya, M., Orhan, U., Erdogmus, D., Oken, B., & Fried-Oken, M. (2013). Initial assessment of artifact filtering for RSVP Keyboard™. Poster presented at IEEE Signal Processing in Medicine and Biology Symposium, Brooklyn, NY, Dec. 7, 2013.
- Higger, M., Akcakaya, M., Nezamfar, H., LaMountain, G., Orhan, U., & Erdogmus, D. (in press). A Bayesian framework for intent detection and stimulation selection in SSVEP BCIs. *Signal Processing Letters*.
- Hild, K.E., Orhan, U., Erdogmus, D., Roark, B., Oken, B., Purwar, S., Nezamfar, H., & Fried-Oken, M. (2011). An ERP-based brain-computer interface for text entry using rapid serial visual presentation and language modeling. *Proceedings of the 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies: Systems Demonstrations*. 38-43.
- McCoy, K.F., Arnott, J.L., Ferres, L., Fried-Oken, M., & Roark, B. (2013). Speech and language processing as assistive technologies. *Computer Speech & Language*, 27(6), 1143-1146. <http://www.sciencedirect.com/science/article/pii/S0885230813000326>
- Nezamfar, H., Orhan, U., Erdogmus, D., Hild, K.E., Purwar, S., Oken, B., & Fried-Oken, M. (2011). On visually evoked potentials in EEG induced by multiple pseudorandom binary sequences for brain computer interface design. *Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing*, 2044-47. PMC # 3760675.
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