



August, 2016

Upcoming Seminars, Lectures, Courses, Conferences

- **CSNE Summer Program Research Symposium** (August 17, 2016; CSNE, Seattle, WA); Students in the CSNE REU/YSP/RET/REV programs will give research talks and poster presentations. (Open to the public.)
- **IEEE Brain Initiative BCI Hackathons** (September 10-11, 2016; San Diego, CA; September 23-25, 2016 in Philadelphia, PA; October 8-9, 2016 in Budapest, Hungary): <http://brain.ieee.org/news/ieee-brain-initiative-sponsor-3-hackathons-fall/>
- **IEEE Technology Time Machine (TTM) Conference** (October 20-21, 2016; San Diego, CA): <http://sites.ieee.org/ttm/>
- **IEEE Workshop on Advanced NeuroTechnologies for BRAIN Initiatives** (November 10-11, 2016; San Diego, CA): <http://brain.ieee.org/news/antbi/>
- **Society for Neuroscience Annual Meeting** (November 12-16, 2016, San Diego CA): <http://www.sfn.org>
- **International Neuroethics Society Annual Meeting** (November 10-11, 2016; San Diego, CA): <http://www.neuroethicssociety.org/annual-meeting>

New CSNE Publications

- **Huang, Y. and Rao, R.P.**, Bayesian Inference and Online Learning in Poisson Neuronal Networks, *Neural Comput.* Jun 27:1-24, 2016.
- **Matlack, C., Chizeck, H. and Moritz, C.T.**, Empirical movement models for brain computer interfaces, *IEEE Trans Neural Syst Rehabil Eng.*, Jun 30, 2016.
- **Klein, E., Goering, S., Gagne, J., Shead, C.V., Franklind, R., Zorowitz, S., Dougherty, D.D. and Widge, A.S.**, Brain-computer interface-based control of closed-loop brain stimulation: attitudes and ethical considerations, *Brain-Computer Interfaces*, 2016, <http://dx.doi.org/10.1080/2326263X.2016.1207497>
- **Cronin, J., Wu, J., Collins, K., Sarma, D., Rao, R., Ojemann, J. and Olson, J.**, Task-Specific Somatosensory Feedback via Cortical Stimulation in Humans. *IEEE Trans Haptics.* 2016 Jul 18.
- Pang, R., Lansdell, B.J. and **Fairhall, A.L.**, Dimensionality reduction in neuroscience. *Curr Biol.* 2016 Jul 25;26(14):R656-60. doi: 10.1016/j.cub.2016.05.029.



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Improving lives by connecting brains and technology

CSNE in the News

- Knowledge is power when shared: Students from the United States visiting various work groups of BrainLinks-BrainTools this summer:
<http://www.brainlinks-braintools.uni-freiburg.de/news/id/243/>
- Navigating the ethics of neuroscience:
<https://artsci.washington.edu/news/2016-08/neuroethics>
- Rebuilding the brain: Using AI, electrodes, and machine learning to bridge gaps in the human nervous system
<http://www.zdnet.com/article/rebuilding-the-brain-using-ai-electrodes-and-machine-learning-to-bridge-gaps-in-the-human-nervous/>
- Tomorrow's Prosthetic Hand:
http://www.scientificamerican.com/article/tomorrow-s-prosthetic-hand/?WT.mc_id=SA_MB_20160706
- CSNE-funded study published in Brain-Computer Interfaces journal:
<http://www.csne-erc.org/news/story/csne-funded-study-published-brain-computer-interfaces-journal>
- Wrestlebrainia-mini at SDSU:
https://newscenter.sdsu.edu/mechanical/images/bioengineering_event_1.jpg
- High schoolers with disabilities excel at UW summer program
<http://www.seattletimes.com/seattle-news/education/high-schoolers-with-disabilities-excel-at-uw-summer-program/>

New CSNE Blog Posts

- Undergraduate students participate in hands-on neural engineering research:
<http://www.csne-erc.org/engage-enable/post/undergraduate-students-participate-hands-neural-engineering-research>

Recent Papers of Interest to the CSNE Community

- Koutsou, A.D., Moreno, J.C., del Ama, A.J., Rocon, E., and Pons, J.L., Advances in selective activation of muscles for non-invasive motor neuroprosthesis, Journal of NeuroEngineering and Rehabilitation, 201613:56, DOI: 10.1186/s12984-016-0165-2
- Frontiers in Neuroscience Neuroprosthetics
<http://journal.frontiersin.org/journal/neuroscience/section/neuroprosthetics>

Grant Opportunities

- Christopher and Dana Reeve Foundation
<https://www.christopherreeve.org/get-support/grants-for-non-profits/program-overview>



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- Sigma Xi Grants-in-Aid of Research Program
<https://www.sigmaxi.org/programs/grants-in-aid>
- NSF Graduate Research Fellowship Program (GRFP)
http://www.nsf.gov/pubs/2016/nsf16588/nsf16588.htm?WT.mc_id=USNSF_25&WT.mc_ev=click
- Ruth L. Kirschstein National Research Service Award (NRSA) Individual Senior Fellowship (Parent F33)
<http://grants.nih.gov/grants/guide/pa-files/PA-16-310.html>

Join the CSNE Facebook site at:

<https://www.facebook.com/groups/134997836537779/>

Please send additional news and events items for inclusion in this newsletter to Dr. Eric Chudler (CSNE, Executive Director) at chudler@uw.edu.