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經歷：

著作：

Books/Book Chapters

- Huang, C. F.; Gerstoft, P.; Hodgkiss, W. S., (Oct, 2010). Statistical Estimation of Source Location in Presence of Geoacoustic Inversion Uncertainty, in Jeffrey Simmen, Ellen S. Livingston, Ji-Xun Zhou, Feng-Hua Li (Editors): “Shallow Water Acoustics: Proceedings of the Second International Shallow-Water Acoustics Conference (SWAC'09) (AIP Conference Proceedings)” , 1272, 353-359. 978-0735408227, AMER INST PHYSICS, NY, USA.
- Chen-Fen Huang, T. C. Yang, Jin-Yuan Liu, Tom Burchfield, and Jeff Schindall, “Ocean Current Tomography Using Networked Distributed Sensors,” in Ji-Xun Zhou, Zhenglin Li, Jeffrey Simmen (Eds.): “Advances in Ocean Acoustics: Proceedings of the third International Conference on Ocean Acoustics, (OA2012) (AIP Conference Proceedings),” 2012.

論文

- Naokazu Taniguchi, Chen-Fen Huang*, Arata Kaneko, Cho-Teng Liu, Bruce M. Howe, Yu-Huai Wang, Yih Yang, Ju Lin, Xiaohua Zhu, and Noriaki Gohda, 2013, “Measuring the Kuroshio Current with ocean acoustic tomography,” Journal of the Acoustical Society of America, 134(4), 3272–3281.

- Huang, C. F.; Yang, T. C.; Liu, J. Y.; Schindall, J., 2013. Acoustic mapping of ocean currents using networked distributed sensors, *Journal of the Acoustical Society of America*, 134(3), 2090-2105.
- Huang, S. H., Yang, T. C., Huang, C. F., 2013. Multipath correlations in underwater acoustic communication channels, *Journal of The Acoustical Society of America*, 133(4), 2180-2190.
- Yang, T. C.; Schindall, J.; Huang, C. F.; Liu, J. Y., 2012. Clutter reduction using Doppler sonar in a harbor environment, *Journal of The Acoustical Society of America*, 132(5): 3053-3067.
- Huang, C. F.; Yang, S. F.; Liu, J. Y.*, 2012. Inverting sediment sound speed profile using a parameterized geoacoustic model: numerical and statistical analysis, *Journal of Marine Science and Technology-Taiwan*, 20(5), 584-594.
- C.-F. Huang, P. Gerstoft, and W. S. Hodgkiss. "Statistical estimation of source location in presence of geoacoustic inversion uncertainty," *J. Acoust. Soc. Am.*, Vol. 125, No. 4, EL171–176, 2009.
- Chen-Fen Huang, P. Gerstoft, and W. S. Hodgkiss. "Effect of ocean sound speed uncertainty on matched-field geoacoustic inversion," *J. Acoust. Soc. Am.*, Vol. 123, No. 6, EL162–EL168, 2008.
- Peter Gerstoft, William S. Hodgkiss, Martin Siderius, Chen-Fen Huang, and Chris H. Harrison, "Passive fathometer processing," *J. Acoust. Soc. Am.*, Vol. 123, No. 3, 1297–1305, 2008.
- Yong Han Goh, Peter Gerstoft, William S. Hodgkiss, and Chen-Fen Huang, "Seabed characterization and transmission loss estimation from geoacoustic inversion using a towed array," *J. Acoust. Soc. Am.*, Vol. 122, No. 5, 2571-2579, 2007.
- Chen-Fen Huang, Peter Gerstoft, and William S. Hodgkiss, "On the effect of error correlation on matched-field geoacoustic inversion," *J. Acoust. Soc. Am.*, Vol. 121, No. 2, EL64-EL69, 2007.
- Chen-Fen Huang, Peter Gerstoft, and William S. Hodgkiss, "Validation of statistical estimation of transmission loss in the presence of geoacoustic inversion uncertainty," *J. Acoust. Soc. Am.*, Vol. 120, No. 4, 1932-1941, 2006.

- Peter Gerstoft, Chen-Fen Huang, and William S. Hodgkiss, "Estimation of transmission loss in the presence of geoacoustic inversion uncertainty," IEEE J. Oceanic Eng., Vol. 31, No. 2, 299-307, 2006.
- Chen-Fen Huang, Peter Gerstoft, and William S. Hodgkiss, "Uncertainty analysis in matched-field geoacoustic inversions," J. Acoust. Soc. Am., Vol. 119, No. 1, 197-207, 2006.
- Chen-Fen Huang and William S. Hodgkiss, "Matched field geoacoustic inversion of low frequency source tow data from the ASIAEX East China Sea experiment," IEEE J. Oceanic Eng., Vol. 29, No. 4, 952-963, 2004.
- Jin-Yuan Liu, Ping-Chang Hsueh, and Chen-Fen Huang, "Coherent reflection of acoustic plane wave from a rough seabed with random sediment layer overlying an elastic basement," IEEE J. Oceanic Eng., Vol. 27, 853-861, 2002.
- Jin-Yuan Liu, Chen-Fen Huang, and Ping-Chang Hsueh, "Acoustic plane-wave scattering from a rough surface over a random fluid medium," Ocean Engineering, Vol. 29, No. 8, 915-930, 2002.
- Bang-Fuh Chen and Chen-Fen Huang, "Hydrodynamic forces on concrete sea wall and breakwater during earthquake: effects of bottom sediment layers and back-fill soil," Ocean Engineering, Vol. 29, No. 7, 783-814, 2002.

會議論文

- Yong Han Goh, Chen-Fen Huang, Peter Gerstoft, and William S. Hodgkiss, "Seabed Characterization by Inversion of Acoustic Data from a Towed Array," Undersea Defense Technology Pacific 2006 Conference, San Diego, California.
- Caglar Yardim, Peter Gerstoft, William S. Hodgkiss, and Chen-Fen Huang, "Refractivity from clutter (RFC) estimation using a hybrid genetic algorithm Markov chain Monte Carlo method," IEEE APS international and USNC/URSI National Radio Science meeting, 2005.
- Peter Gerstoft, Chen-Fen Huang, and William S. Hodgkiss, "Posterior estimation of transmission loss from ocean acoustic data," Sixth European Conference on Underwater Acoustics, Delft 2004.

- Chen-Fen Huang and William S. Hodgkiss, “Mid-frequency geoacoustic inversion of source tow data from the ASIAEX East China Sea experiment,” Oceans2003 MTS/IEEE Conference Proceedings, San Diego, California, 576-581, 2003

其他專書

- Chen-Fen Huang, A Bayesian Approach to Matched-Field Geoacoustic Inversion with Analysis of ASIAEX Experimental Data, Ph.D. thesis, Scripps Institution of Oceanography, University of California, San Diego, 2005.
- Chen-Fen Huang, Acoustic Wave Scattering From Rough Sea Surface and Seabed, Master thesis, Institute of Undersea Technology, National Sun Yat-sen University, 1998.
- Chen-Fen Huang, Sediment Effects on Responses of Coastal Structures, Master thesis, Department of Marine Environment, National Sun Yat-sen University, 1997.