

# Resume

Dr. Liang Vincent WANG received his B.Eng degree from Xi'an Jiaotong University, China and PhD degree from Nanyang Technological University, Singapore, in 2003 and 2010, respectively. From Jan 2009 to Oct 2011, he worked as a research staff in School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore. Since November 2011, he has been with DTS Inc, currently as a Senior Audio Solutions Engineer. He is a member of IEEE, and an Associate Editor for IEEE Consumer Electronics Magazine. He is also serving as the secretary for IEEE Consumer Electronics Society Singapore Chapter.

He has published in various international journals and conferences including IEEE Trans. on Audio Speech and Language Processing; Journal of Sound and Vibration; IEEE International Conference on Acoustics, Speech and Signal Processing . He has been serving as reviewers for such journals and conferences like IEEE Trans. on Audio Speech and Language Processing, Journal of Sound and Vibration, Audio Engineering Society. Since joining DTS, he has participated in various industry leading projects involving world's top consumer electronics companies. His research work in DTS has been granted WO, US patent.

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## **Education:**

- 2005 - 2010: PhD, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore.

*Theoretical analysis of active sound control system.*

*Interactive surround sound reproduction.*

- 2004 - 2005: M.Eng, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore.

*Developed an active sound profiling system for in cabin noise shaping and bass enhancement.*

- 1999 - 2003: B.Eng, School of Electronic & Information Engineering, Xi'an Jiaotong University, China.

## **Work Experience:**

- Apr. 2014 - Present: Senior Audio Solutions Engineer, DTS Inc, Singapore Technology Centre.

*System solutions from codec to post processing for digital entertainment systems*

- Nov. 2011 - Mar. 2014: Audio R&D Engineer, DTS Inc, Singapore Technology Center.

*Research and development of audio enhancement technologies for both speech and audio signal.*

- Jan. 2009 - Oct. 2011: Research Staff, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore.

*Loudspeaker array system for sound field control.*

- July. 2005 - Dec. 2008: Teaching Assistant, School of Electrical & Electronic Engineering, Nanyang Technological University, Singapore.

## Professional Associations and Honours

- **Associate Editor**

IEEE Consumer Electronics Magazine

- **Secretary**

IEEE Consumer Electronics Society (Singapore Chapter)

- **Reviewer**

*Asia Pacific Signal and Information Processing Association (APSIPA)*

*Audio Engineering Society (AES)*

*EURASIP Journal on Audio, Speech, and Music Processing*

*European Signal Processing Conference (EUSIPCO)*

*IEEE Transactions on Audio, Speech and Language Processing*

*IEEE Consumer Electronics Magazine*

*International Conference on Audio, Language and Image Processing (ICALIP)*

*Journal of Sound and Vibration (JSV)*

- ADI University Design Competition 2008 Finalist

- Students Travel Grant

IEEE International Symposium on Consumer Electronics 2005 (sponsored by Philips)

## Research Publications

### International Journals:

L. V. Wang, W. S. Gan, A. K. W. Khong, and S. M. Kuo, "Convergence Analysis of Narrowband Feedback Active Noise Control System with Imperfect Secondary-Path Estimation," IEEE Transactions on Audio, Speech and Language Processing (**IEEE TASLP**), vol.21, no.11, pp. 2403-2411, Nov 2013.

L. Wang and W. S. Gan, "Convergence Analysis of Narrowband Active Noise Equalizer System under Imperfect Secondary Path Estimation," *IEEE Transactions on Audio, Speech and Language Processing (IEEE TASLP)*, vol.17, no.4, pp. 566-571, May 2009.

L. Wang, W. S. Gan and S. M. Kuo, "Integration of Bass Enhancement and Active Noise Control System in Automobile Cabin," *Advances in Acoustics and Vibration (AAV)*, vol. 2008, article ID 869130, 2008.

L. Wang and W. S. Gan, "Analysis of misequalization in a narrowband active noise equalizer system," *Journal of Sound and Vibration (JSV)*, vol. 311, pp. 1438–1446, 2008.

#### **International Conferences:**

L. Wang, W. S. Gan, Y. K. Chong and S. M. Kuo, "Step Size Bound for Narrowband Feedback Active Noise Control", 2013 APSIPA Annual Summit and Conference, Taiwan, Nov 2013.

L. Wang, A. W. H. Khong and W. S. Gan, "On the conditioning of the propagation function in a nearfield loudspeaker array", 2010 European Signal Processing Conference (**EUSIPCO**), Aalborg, Denmark, Aug 2010.

L. Wang and W. S. Gan, "Analysis of active noise equalization system with imperfect secondary path estimation," 2008 International Conference on Audio, Language and Image Processing (**ICALIP**), Shanghai, China, July 2008.

L. Wang, W. S. Gan and Y. K. Chong, "New Equalizing Scheme of Active Noise Equalization System in Automobile Cabin," 2007 International Conference on Multimedia and Expo (**ICME**), Beijing, China, July 2007.

L. Wang, W. S. Gan and S. M. Kuo, "A Novel Approach to Bass Enhancement in Automobile Cabin," 2006 IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**), Toulouse, France, May 2006.

Y. K. Chong, L. Wang, W. S. Gan, and S.C. Ting, "Integrated Headsets Using the Adaptive Hybrid Active Noise Control System", 2005 International Conference on Information Communications and Signal Processing(**ICICS**), Bangkok, Thailand, Dec 2005.

L. Wang, W. S. Gan and S. M. Kuo, "Bass Enhancement for Automobile Multimedia System Using Active Noise Equalizer," The Ninth International Symposium on Consumer Electronics 2005 (**ISCE**), Macau, China, June 2005.

#### **Patents**

L. V. Wang, C. Yap, C. Tio, "Directional based audio response to an external environment emergency signal," WO 2013155102 A1, U.S. Patent No. 9,397,630.