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RESEARCH INTERESTS

- Music information retrieval
- Multimedia signal processing
- Affective computing and human-centered multimedia
- Machine learning

EDUCATION

- Ph.D., Communication Engineering, National Taiwan University, Taiwan 2010
- B.S., Electrical Engineering, National Taiwan University, Taiwan 2006

AWARDS AND HONORS

- Best Conference Paper Award, IEEE Multimedia Communications Technical Committee (MMTC) 2015
- Best Paper Award, IEEE International Conference on Multimedia Expo. (ICME) 2015
- Young Scholars' Creativity Award, Foundations for the Advancement of Outstanding Scholarship 2015
- Ta-You Wu Memorial Research Award, Ministry of Science and Technology 2014
- Best Poster Award, IEEE/ACM Joint Conference on Digital Libraries 2014
- Project for Excellent Junior Research Investigators, National Science Council 2013–2016
- Career Development Award, Academia Sinica 2013–2017
- Pan Wen Yuan Research Exploration Award 2013
- First Prize, ACM Multimedia Grand Challenge 2012
- IEEE SPS Young Author Best Paper Award, IEEE Signal Processing Society 2011
- Best Ph.D. Dissertation Award, Graduate Institute of Communication Engineering, NTU 2010
- Best Ph.D. Dissertation Award, TAAI (Taiwanese Association for Artificial Intelligence) 2010
- MediaTek Fellowship 2009
- Microsoft Research Asia (MSRA) Fellowship 2008

WORK EXPERIENCES

- **Associate Research Fellow** in Research Center for IT Innovation, Academia Sinica since 2015/11

- **Joint-Appointment Associate Professor** in CSIE, National Cheng Kung University since 2017/01
- **Adjunct Associate Professor** in CSIE, National Tsing-Hua University 2016/02–07
- **Assistant Research Fellow** in Research Center for IT Innovation, Academia Sinica 2011/07–2015/11
- **Joint-appointment Assistant Research Fellow** in Institute of Information Science, Academia Sinica 2012/01–2015/11
- **Joint-Appointment Assistant Professor** in CSIE, National Cheng Kung University since 2013/09
- Visiting Scholar at Columbia University, USA 2013/06–08
- Visiting Scholar at Music Technology Group, Universitat Pompeu Fabra, Spain 2011/10–12
- Second Lieutenant in Communications, Electronics and Information, ROC Army 2010/8–2011/7

ACADEMIC SERVICES

- **Associate editor of**
 - IEEE Transactions on Affective Computing 2016/11–2018/11
 - IEEE Transactions on Multimedia 2016/9–2018/9
- **IEEE senior member** since 2017
- **Program chair of**
 - Int. Society for Music Information Retrieval Conference (ISMIR) 2014
- **Guest editor of**
 - ACM Transactions on Intelligent Systems and Technology 2015
 - IEEE Transactions on Affective Computing 2014
- **10K award committee member of**
 - IEEE International Conference on Multimedia and Expo. (ICME) 2016–2018
- **Unconference chair of**
 - Int. Society for Music Information Retrieval Conference (ISMIR) 2017
- **External PhD thesis committee member of**
 - Hong Kong University of Science and Technology 2015
- **Organizer of**
 - Int. Workshop on Affect and Sentiment in Multimedia, in conjunction with ACM MM 2015
 - MediaEval Affect Task: Music in Emotion 2013–2015
 - MIREX Singing Voice Separation Task 2014–2015
 - Int. Workshop on Affective Analysis in Multimedia, in conjunction with IEEE ICME 2013
 - Taiwanese Workshop on Music Information Retrieval 2012–2014
- **Member of**
 - Taiwan ACM SIGMM Chapter since 2014
- **Affiliated member of**
 - IEEE Multimedia Systems and Applications Technical Committee (MSA TC) of CAS since 2013
- **Invited voting member of**

- IEEE Comm. Society Multimedia Communications Technical Committee (MMTC) since 2010
- Technical program committee (TPC) member of
 - Intl. Society for Music Information Retrieval Conference (ISMIR) 2015
- Reviewer of
 - Transactions such as TASLP, TMM, TKDE, TSP, TIP, TOMM, TAC NC, MultiMedia, JNMR, JMM, JIIS, PRL, JASA, FnTIR, ASP, etc.
 - Conferences such as ISMIR, ACM MM, ICME, ICASSP, WASPAA, etc.

TUTORIAL

- X. Hu and **Y.-H. Yang**, “Music Affect Recognition: The State-of-the-art and Lessons Learned,” *Int. Society of Music Information Retrieval Conference (ISMIR)*, 2012.

COMPETITION

- 9th Prize, KDD Cup (among 821 participants) 2015
- 2nd Prize, ISMIR Grand Challenge on User eXperience (among 3 finalists) 2014
- 1st Prize, ACM Multimedia Grand Challenge (among 17 finalist teams) 2012

PUBLICATIONS (including number of citations indicated in Google Scholar [link](#))

Total citations: 2426; citations of most-cited paper: 351; h-index: 25; i10-index: 52

• Book

- [1] **Y.-H. Yang** and H.-H. Chen, *Music Emotion Recognition*, CRC Taylor & Francis Books, Feb. 2011.

• Book Chapters

- [2] J.-C. Wang, **Y.-H. Yang** and H.-M. Wang, “Affective music information retrieval,” In *Emotions and Personality in Personalized Services*, M. Tkalčič *et al.* Eds., Springer, 2016.
- [3] **Y.-H. Yang**, J.-C. Wang, Y.-A. Chen, and H. H. Chen, “Model Adaptation for Personalized Music Emotion Recognition,” In *Handbook of Pattern Recognition and Computer Vision*, C.-H. Chen Eds., World Scientific Publishing, Feb. 2016.

• Journal Papers

- [4] Y.-P. Lin, P.-K. Jao, and **Y.-H. Yang**, “Improving cross-day EEG-based emotion classification using robust principal component analysis,” *Frontiers in Computational Neuroscience*, 2017.
- [5] A. Aljanaki, **Y.-H. Yang**, and M. Soleymani, “Developing a benchmark for emotional analysis of music,” *PLOS ONE*, vol, 12, no. 3, e0173392.doi:10.1371/journal.pone.0173392, 2017.
- [6] Y.-H. Chin, J.-C. Wang, J.-C. Wang and **Y.-H. Yang**, “Predicting the probability density function of music emotion using emotion space mapping,” *IEEE Transactions on Affective Computing (TAC)*, accepted for publication.
- [7] X. Hu and **Y.-H. Yang**, “The mood of Chinese pop music: Representation and recognition,” *Journal of*

the Association for Information Science and Technology (JAIST), accepted for publication.

- [8] Y.-A. Chen, J.-C. Wang, **Y.-H. Yang**, H.-H. Chen, "Component tying for mixture model adaptation in personalization of music emotion recognition," *IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 25, no. 7, pp. 1409-1420, Jul. 2017. [cover page of the issue]
- [9] X. Hu and **Y.-H. Yang**, "Cross-dataset and cross-cultural music mood prediction: A case on Western and Chinese pop songs," *IEEE Transactions on Affective Computing (TAC)*, vol. 8, no. 2, pp. 228-240, Apr. 2017.
- [10] T.-S. Chan and **Y.-H. Yang**, "Informed group-sparse representation for singing voice separation," *IEEE Signal Processing Letters (SPL)*, vol. 24, no. 2, pp. 156-160, Feb. 2017.
- [11] T.-S. Chan and **Y.-H. Yang**, "Polar n -complex and n -bicomplex singular value decomposition and principal component pursuit," *IEEE Transactions on Signal Processing (TSP)*, vol. 64, no. 24, pp. 6533-6544, Dec. 2016.
- [12] M. Schedl, **Y.-H. Yang**, and P. Herrera, "Introduction to intelligent music systems and applications," *ACM Transactions on Intelligent Systems and Technology (TIST)*, vol. 8, no. 2, article 17, Oct. 2016.
- [13] P.-K. Jao, L. Su, **Y.-H. Yang** and B. Wohlberg, "Monaural music source separation using convolutional sparse coding," *IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 24, no. 11, pp. 2158-2170, Nov. 2016.
- [14] T.-S. Chan and **Y.-H. Yang**, "Complex and quaternionic principal component pursuit and its application to audio separation," *IEEE Signal Processing Letters (SPL)*, vol. 23, no. 2, pp. 287-291, Feb. 2016.
- [15] C.-Y. Liang, L. Su and **Y.-H. Yang**, "Musical onset detection using constrained linear reconstruction," *IEEE Signal Processing Letters (SPL)*, vol. 22, no. 11, pp. 2142-2146, Nov. 2015.
- [16] L. Su and **Y.-H. Yang**, "Combining spectral and temporal representations for multipitch estimation of polyphonic music," *IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 23, no. 10, pp. 1600-1612, Oct. 2015.
- [17] P.-K. Jao and **Y.-H. Yang**, "Music annotation and retrieval using unlabeled exemplars: correlation and sparse codes," *IEEE Signal Processing Letters (SPL)*, vol. 22, no. 10, pp. 1771-1775, Oct. 2015.
- [18] **Y.-H. Yang** and Y.-C. Teng, "Quantitative study of music listening behavior in a smartphone context," *ACM Transactions on Interactive Intelligent Systems (TiiS)*, vol. 5, no. 3, article 14, Aug. 2015.
- [19] M. Soleymani, **Y.-H. Yang**, G. Irie, and A. Hanjalic, "Challenges and perspectives for affective analysis in multimedia," *IEEE Transactions on Affective Computing (TAC)*, vol. 6, no. 3, pp. 206-208, 2015.
- [20] J.-C. Wang, **Y.-H. Yang**, H.-M. Wang, and S.-K. Jeng, "Modeling the affective content of music with a Gaussian mixture model," *IEEE Transactions on Affective Computing (TAC)*, vol. 6, no. 1, pp. 56-68, Feb. 2015.
- [21] L. Su, H.-M. Lin, and **Y.-H. Yang**, "Sparse modeling of magnitude and phase-derived spectra for playing technique classification," *IEEE Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 22, no. 12, pp. 2122-2132, Dec. 2014.
- [22] L. Su, C.-C. Yeh, J.-Y. Liu, J.-C. Wang, and **Y.-H. Yang**, "A systematic evaluation of the bag-of-frames representation for music information retrieval," *IEEE Transactions on Multimedia (TMM)*, vol. 16, no. 5, pp. 1188-1200, Aug. 2014.
- [23] Y.-P. Lin, **Y.-H. Yang**, and T.-P. Jung, "Fusion of Electroencephalogram dynamics and musical contents for estimating emotional responses in music listening," *Frontiers in Neuroscience*, vol. 8, no. 94, pp.

1-14, May 2014.

- [24] **Y.-H. Yang** and J.-Y. Liu, "Quantitative study of music listening behavior in a social and affective context," *IEEE Transactions on Multimedia (TMM)*, vol. 15, no. 6, pp. 1304-1315, Oct. 2013.
- [25] K.-S. Lin, A. Lee, **Y.-H. Yang**, C.-T. Lee, and H.-H. Chen, "Automatic highlights extraction for drama video using music emotion and human face features," *Neurocomputing*, vol. 119, pp. 111-117, Nov. 2013.
- [26] C.-T. Lee, **Y.-H. Yang** and H.-H. Chen, "Multipitch estimation of piano music by exemplar-based sparse representation," *IEEE Transactions on Multimedia (TMM)*, vol. 14, no. 3, pp. 608-618, Jun. 2012.
- [27] **Y.-H. Yang** and H.-H. Chen, "Machine recognition of music emotion: a review," *ACM Transactions on Intelligent Systems and Technology (TIST)*, vol. 3, no. 3, article 40, May 2012.
- [28] Y.-C. Lin, **Y.-H. Yang**, and H.-H. Chen, "Exploiting online tags for music emotion classification," *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)*, vol. 7s, no. 1, article 26, Oct. 2011.
- [29] **Y.-H. Yang** and H.-H. Chen, "Prediction of the distribution of perceived music emotions using discrete samples," *IEEE Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 19, no. 7, pp. 2184-2196, Sep. 2011.
- [30] **Y.-H. Yang** and H.-H. Chen, "Ranking-based emotion recognition for music organization and retrieval," *IEEE Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 19, no. 4, pp. 762-774, May 2011.
- [31] Y.-F. Su, **Y.-H. Yang**, M.-T. Lu, and H.-H. Chen, "Smooth control of adaptive media playout for video streaming," *IEEE Transactions on Multimedia (TMM)*, vol. 11, no. 7, pp. 1331-1339, Nov. 2009.
- [32] **Y.-H. Yang**, W.-H. Hsu, and H.-H. Chen, "Online reranking via ordinal informative concepts for context fusion in concept detection and video search," *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, vol. 19, no. 12, pp. 1880-1890, Dec. 2009.
- [33] **Y.-H. Yang**, Y.-C. Lin, Y.-F. Su, and H.-H. Chen, "A regression approach to music emotion recognition," *IEEE Transactions on Audio, Speech, and Language Processing (TASLP)*, vol. 16, no. 2, pp. 448-457, Feb. 2008.

• Conference Papers

- [34] Y.-S. Huang, S.-Y. Chou and **Y.-H. Yang**, "Music thumbnailing via neural attention modeling of music emotion," in *Proc. Asia Pacific Signal and Information Processing Association Annual Summit and Conf. (APSIPAASC)*, 2017.
- [35] C.-A. Yu, T.-S. Chan and **Y.-H. Yang**, "Low-rank matrix completion over finite Abelian group algebras for context-aware recommendation," in *Proc. ACM Int. Conf. Information and Knowledge Management (CIKM)*, 2017.
- [36] L.-C. Yang, S.-Y. Chou, **Y.-H. Yang**, "MidiNet: A convolutional generative adversarial network for symbolic-domain music generation," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, 2017.
- [37] C.-C. Shih, P.-C. Li, Y.-J. Lin, A. W. Y. Su, L. Su and **Y.-H. Yang**, "Analysis and synthesis of the violin playing styles of Heifetz and Oistrakh," in *Proc. Int. Conf. Digital Audio Effects (DAFx)*, 2017.
- [38] S.-Y. Chou, L.-C. Yang, **Y.-H. Yang**, and J.-S. Jang, "Conditional preference nets for user and item cold start problems in music recommendation," *Proc. IEEE Int. Conf. Multimedia and Expo. (ICME)*, 2017,

accepted.

- [39] Z.-C. Fan, T.-S. T. Chan, **Y.-H. Yang**, and J.-S. R. Jang, "Music signal processing using vector product neural networks," *Proc. International Workshop on Deep Learning for Music (DLM)*, 2017.
- [40] L.-C. Yang, S.-Y. Chou, J.-Y. Liu, **Y.-H. Yang**, and Yi-An Chen, "Revisiting the problem of audio-based hit song prediction using convolutional neural networks," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, pp. 621-625, 2017.
- [41] T.-W. Su, J.-Y. Liu, and **Y.-H. Yang**, "Weakly-supervised audio event detection using event-specific Gaussian filters and fully convolutional networks," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, pp. 791-795, 2017.
- [42] S.-Y. Su, C.-K. Chiu, L. Su, and **Y.-H. Yang**, "Automatic conversion of pop music into chiptunes for 8-bit pixel art," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, pp. 411-415, 2017.
- [43] L. Gao, L. Su, **Y.-H. Yang**, and T. Lee, "Polyphonic piano note transcription with non-negative matrix factorization of differential spectrogram," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, pp. 291-295, 2017.
- [44] W.-L. Wei, J.-C. Lin, T.-L. Liu, **Y.-H. Yang**, H.-M. Wang, H.-R. Tyan, H.-Y. M. Liao, "Deep-net fusion to classify shots in concert videos," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, pp. 1383-1387, 2017.
- [45] M.-H. Yang, L. Su and **Y.-H. Yang**, "Highlighting root notes in chord recognition using cepstral features and multi-task learning," in *Proc. Asia Pacific Signal and Information Processing Association Annual Summit and Conf. (APSIPA ASC)*, 2016.
- [46] J.-Y. Liu and **Y.-H. Yang**, "Event localization in music auto-tagging," in *Proc. ACM Multimedia (MM)*, full paper (acceptance rate 20%), pp. 1048-1057, 2016.
- [47] S.-Y. Chou, **Y.-H. Yang**, J.-S. Jang and Y.-C. Lin, "Addressing cold start for next-song recommendation," in *Proc. ACM Recommender Systems (RecSys)*, short paper, pp. 115-118, 2016.
- [48] C.-M. Chen, M.-F. Tsai, Y.-C. Lin and **Y.-H. Yang**, "Query-based music recommendations via preference embedding," in *Proc. ACM Recommender Systems (RecSys)*, short paper, pp. 79-82, 2016.
- [49] C.-H. Yang, P.-C. Li, A. W. Y. Su, L. Su, and **Y.-H. Yang**, "Automatic violin synthesis using expressive musical term features," in *Proc. Int. Conf. Digital Audio Effects (DAFx)*, 2016.
- [50] L. Su, T.-Y. Chuang and **Y.-H. Yang**, "Exploiting frequency, periodicity and harmonicity using advanced time-frequency concentration techniques for multipitch estimation of choir and symphony," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, pp. 393-399, 2016.
- [51] Y.-P. Chen, L. Su and **Y.-H. Yang**, "Electric guitar playing technique detection in real-world recording based on F0 sequence pattern recognition," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, pp. 708-714, 2015.
- [52] C.-Y. Liang, L. Su, H.-M. Lin and **Y.-H. Yang**, "Musical offset detection of pitched instruments: the case of violin," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, pp. 281-287, 2015.
- [53] P.-C. Li, L. Su, **Y.-H. Yang** and A. W. Y. Su, "Analysis of expressive musical terms in violin using score-informed and expression-based audio features," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, pp. 809-815, 2015.

- [54] Y.-J. Luo, L. Su, **Y.-H. Yang** and T.-S. Chi, "Detection of common mistakes in novice violin playing," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, pp. 316-322, 2015.
- [55] J.-W. Peng, S.-W. Sun, W.-H. Cheng, and **Y.-H. Yang**, "eMosaic: Mobile media pushing through social emotion sensing," in *Proc. ACM Multimedia (MM)*, demo paper, 2015.
- [56] A. Aljanaki, **Y.-H. Yang**, and M. Soleymani, "Emotion in Music Task at MediaEval 2015," in *Proc. MediaEval Workshop*, extended abstract, 2015.
- [57] P.-K. Jao, Y.-P. Lin, **Y.-H. Yang**, and T.-P. Jung, "Using robust principal component analysis to alleviate day-to-day variability in EEG based emotion classification," in *Proc. Annual Int. Conf. IEEE Engineering in Medicine and Biology Society (EMBC)*, pp. 570-573, 2015.
- [58] A. Aljanaki, **Y.-H. Yang**, and M. Soleymani "Musical emotion variation detection from acoustic content - lessons learned from developing MediaEval "Emotion in Music" benchmark," in *Proc. Int. Conf. Music and Emotion (ICME4)*, 2015.
- [59] C.-M. Chen, P.-C. Chien, M.-F. Tsai, **Y.-H. Yang** and Y.-C. Lin, "Exploiting latent social listening representations for music recommendations," in *Proc. ACM Recommender Systems (RecSys)*, poster paper, 2-page poster paper, 2015.
- [60] P.-K. Jao, P.-I. Chen, and **Y.-H. Yang**, "Disk Jockey in Brain - A prototype for volume control of tracked instrument during playback," in *Proc. Int. Works. Brain-Computer Music Interfacing (BCMI)*, 2015.
- [61] L. Su and **Y.-H. Yang**, "Escaping from the abyss of manual annotation: New methodology of building polyphonic datasets for automatic music transcription," in *Proc. Int. Symp. Computer Music Multidisciplinary Research (CMMR)*, 2015.
- [62] P.-I. Chen, J.-Y. Liu, and **Y.-H. Yang**, "Personal factors in music preference and similarity: User study on the role of personality traits," in *Proc. Int. Symp. Computer Music Multidisciplinary Research (CMMR)*, 2015.
- [63] S.-Y. Chou, **Y.-H. Yang**, and Y.-C. Lin, "Evaluating music recommendation in a real-world setting: On data splitting and evaluation metrics," in *Proc. IEEE Int. Conf. Multimedia and Expo. (ICME)*, 2015.
- [64] P.-K. Jao, **Y.-H. Yang**, and B. Wohlberg, "Informed monaural source separation of music based on convolutional sparse coding," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2015.
- [65] T.-S. Chan, T.-C. Yeh, Z.-C. Fan, H.-W. Chen, L. Su, **Y.-H. Yang**, and J.-S. Jang, "Vocal activity informed singing voice separation with the IKALA dataset," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2015.
- [66] Y.-A. Chen, **Y.-H. Yang**, J.-C. Wang, H. H. Chen, "The AMG1608 dataset for music emotion recognition," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2015.
- [67] C.-H. Yeh, **Y.-H. Yang**, M.-H. Chang, and H.-Y. M. Liao, "Music driven human motion manipulation for characters in a video," in *Proc. IEEE Int. Symp. Multimedia (ISM)*, 2014.
- [68] C.-M. Chen, H.-P. Chen, M.-F. Tsai, and **Y.-H. Yang**, "Leverage item popularity and recommendation quality via cost-sensitive factorization machines," in *Proc. IEEE Int. Conf. Data Mining (ICDM)*, Ph.D. forum paper, 2014.
- [69] C.-C. M. Yeh, P.-K. Jao, and **Y.-H. Yang**, "AWtoolbox: Characterizing audio information using audio words," in *Proc. ACM Multimedia (MM)*, short paper, 2014.
- [70] M. Soleymani, A. Aljanaki, **Y.-H. Yang**, M. N. Caro, F. Eyben, K. Markov, B. Schuller, R. Veltkamp, F.

- Weninger, and F. Wiering, "Emotional analysis of music: A comparison of methods," in *Proc. ACM Multimedia (MM)*, short paper, 2014.
- [71] A. Aljanaki, **Y.-H. Yang**, and M. Soleymani, "Emotion in Music Task at MediaEval 2014," in *Proc. MediaEval Workshop*, extended abstract, 2014.
- [72] L. Su, L.-F. Yu, and **Y.-H. Yang**, "Sparse cepstral and phase codes for guitar playing technique classification," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, 2014.
- [73] J.-C. Wang, M.-C. Yan, **Y.-H. Yang** and H.-M. Wang, "Automatic set list identification and song segmentation of full-length concert videos," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, 2014.
- [74] L. Su and **Y.-H. Yang**, "Power-scaled spectral flux and peak-valley group-delay methods for robust musical onset detection," in *Proc. Sound and Music Computing Conference (SMC)*, 2014.
- [75] L. Su, L.-F. Yu, **Y.-H. Yang**, and Hsin-Yu Lai, "Resolving octave ambiguities: A cross-dataset Investigation," in *Proc. Sound and Music Computing Conference (SMC)*, 2014.
- [76] X. Hu and **Y.-H. Yang**, "A study on cross-cultural and cross-dataset generalizability of music mood regression models," in *Proc. Sound and Music Computing Conference (SMC)*, pp. 1149–1155, 2014.
- [77] X. Hu and **Y.-H. Yang**, "Cross-cultural mood regression for music digital libraries," in *Proc. IEEE/ACM Joint Conf. Digital Libraries (DL)*, 2014. **[Best Poster Award]**
- [78] J.-Y. Liu, S.-Y. Liu and **Y.-H. Yang**, "LJ2M Dataset: Toward better understanding of music listening behavior and user mood," in *Proc. IEEE Int. Conf. Multimedia and Expo. (ICME)*, 2014.
- [79] S.-Y. Wang, J.-C. Wang, **Y.-H. Yang** and H.-M. Wang, "Towards time-varying music auto-tagging based on CAL500 Expansion," in *Proc. IEEE Int. Conf. Multimedia and Expo. (ICME)*, 2014.
- [80] W.-C. Lin, S.-W. Sun, W.-. Cheng, **Y.-H. Yang**, K.-L. Hua, F.-J. Wang, and J.-J. Wang, "Attaching-Music: an interactive music delivery system for private listening as wherever you go," in *Proc. IEEE Int. Conf. Multimedia and Expo. (ICME)*, demo paper, 2014.
- [81] P.-K. Jao, C.-C. M. Yeh and **Y.-H. Yang**, "Modified LASSO screening for audio word-based music classification using large-scale dictionary," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2014.
- [82] L.-F. Yu, L. Su and **Y.-H. Yang**, "Sparse cepstral codes and power scale for instrument identification," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2014.
- [83] C.-C. M. Yeh, J.-C. Wang, **Y.-H. Yang** and H.-M. Wang, "Improving music auto-tagging by intra-song instance bagging," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2014.
- [84] Y.-A. Chen, J.-C. Wang, **Y.-H. Yang** and H.-H. Chen, "Linear regression-based adaptation of music emotion recognition models for personalization," in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)*, 2014.
- [85] L. Su and **Y.-H. Yang**, "Sparse modeling for artist identification: Exploiting phase information and vocal separation," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, pp. 349–354, 2013.
- [86] **Y.-H. Yang**, "Low-rank representation of both singing voice and music accompaniment via learned dictionaries," in *Proc. Int. Society of Music Information Retrieval Conf. (ISMIR)*, pp. 427–432, 2013.
- [87] M. Soleymani, M. N. Caro, E. Schmidt, C.-Y. Sha, and **Y.-H. Yang**, "1000 songs for emotional analysis of music," in *Proc. Int. Workshop on Crowdsourcing for Multimedia (CrowdMM)*, pp. 1–6, 2013.

- [88] M. Soleymani, M. N. Caro, E. Schmidt, C.-Y. Sha, and **Y.-H. Yang**, “The MediaEval 2013 brave new task: Emotion in Music,” in *Proc. MediaEval Workshop*, in conjunction with ACM Multimedia, extended abstract, 2013.
- [89] C.-M. Chen, M.-F. Tsai, J.-Y. Liu, and **Y.-H. Yang**, “Using Emotional Context from Article for Contextual Music Recommendation,” in *Proc. ACM Multimedia (MM)*, short paper, 2013.
- [90] C.-M. Chen, M.-F. Tsai, J.-Y. Liu, and **Y.-H. Yang**, “Music recommendation based on multiple contextual similarity information,” in *Proc. IEEE/WIC/ACM Int. Conf. Web Intelligence (WI)*, 2013.
- [91] P.-K. Jao, L. Su, and **Y.-H. Yang**, “Analyzing the dictionary properties and sparsity constraints for a dictionary-based music genre classification system,” in *Proc. Asia Pacific Signal and Information Processing Association Annual Summit and Conf. (APSIPA ASC)*, 2013.
- [92] C.-C. Yeh and **Y.-H. Yang**, “Towards a more efficient sparse coding based audio-word feature extraction system,” in *Proc. Asia Pacific Signal and Information Processing Association Annual Summit and Conf. (APSIPA ASC)*, 2013.
- [93] **Y.-H. Yang**, “Towards real-time music auto-tagging using sparse features,” in *Proc. IEEE Int. Conf. Multimedia and Expo. (ICME)*, oral paper (best paper finalist), 2013.
- [94] Y.-C. Teng, Y.-S. Kuo, and **Y.-H. Yang**, “A large in-situ data set for context-aware music recommendation on smartphones,” in *Proc. IEEE Int. Conf. Multimedia and Expo. (ICME)*, short paper, 2013.
- [95] C.-C. Yeh, L. Su, and **Y.-H. Yang**, “Dual-layer bag-of-frames model for music genre classification,” in *Proc. IEEE Int. Conf. Acoustics, Speech, and Signal Processing (ICASSP)*, pp. 246–250, 2013.
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