

Chi-Chun Lee (Jeremy)
National Tsing Hua University
Department of Electrical Engineering
No. 101, Sec. 2, Kuang Fu Road, Hsinchu 30013, Taiwan
Email: cclee@ee.nthu.edu.tw
Webpage: <https://biic.ee.nthu.edu.tw/cclee.php>
Tel: +886-3-5162439; Fax: +886-3-5715971

Professional Interests

Speech and Language, Affective Computing, Health Analytics, Multimodal Learning

Education

University of Southern California (USC), California, USA

Ph.D. in Electrical Engineering

Dec. 2012

Thesis Advisor: Professor Shrikanth S. Narayanan

BSP: Computational Approaches for Modeling and Quantifying Interaction Dynamics in Dyadic Human Interactions

University of Southern California (USC), California, USA

B.S. in Electrical Engineering, emphasis in digital signal processing

May 2007

Minor in **Business Administration**

Professional Experiences

Aug. 2024 – Present: Director

NTHU/NVIDIA Innovation Center, National Tsing Hua University, Hsinchu, Taiwan

Aug. 2024 – Present: Associate Chair

Department of Electrical Engineering, National Tsing Hua University, Hsinchu, Taiwan

Aug. 2022 – Present: Professor

Department of Electrical Engineering, National Tsing Hua University, Hsinchu, Taiwan

Joint Appointment:

Academia Sinica: Research Fellow, Research Center for Information Technology Innovation;

NTHU: Institute of Communication Engineering (ICE), College of Semiconductor Research (COSR), Biomed AI Ph.D. Program (BAI), International Intercollegiate Ph.D. Program (IPHD), Precision Medicine Ph.D. Program (PMED), Master Program in Medical Informatics (MPMI)

Aug. 2018 – Jul. 2022: Associate Professor

Department of Electrical Engineering, National Tsing Hua University, Hsinchu, Taiwan

Joint Appointment:

Institute of Communication Engineering (ICE), College of Semiconductor Research (COSR), Department of Kinesiology (PE), Biomed AI Ph.D. Program (BAI), International Intercollegiate Ph.D. Program (IPHD), Precision Medicine Ph.D. Program (PMED)

Mar. 2025 – Feb. 2026: Project Consultant

King Yuan Electronics, Hsinchu, Taiwan

Feb. 2025 – present: External Consultant

Taichung Veterans General Hospital Department of Digital Medicine

Apr. 2021 – Mar. 2024: Project Consultant

Allianz Life Taiwan, Taipei, Taiwan

Apr. 2019 – Mar. 2022: Project Consultant

E. Sun Bank, Taipei, Taiwan

Mar. 2018 – Dec. 2018: Project Consultant

Industrial Technology Research Institute (ITRI), Hsinchu, Taiwan

Feb. 2014 – Jul. 2018: Assistant Professor

National Tsing Hua University, Department of Electrical Engineering, Hsinchu, Taiwan

Feb. 2013 – Dec. 2013: Data Scientist

id:a Lab, ID Analytics Inc., San Diego, USA

Sept. 2007 – Dec. 2012: Graduate Research Assistant

Signal Analysis and Interpretation Laboratory (SAIL), USC, Los Angeles, USA

Awards/Honors

2025 National Tsing Hua University: NTHU-Novatek Distinguished Talent Chair (2026)

2025 Chinese Institute of Electrical Engineering : Outstanding Electrical Engineering Professor Award (2025)

2024 National Tsing Hua University: NTHU-Novatek Distinguished Talent Chair (2025)

2020 IEEE Senior Member (2020)

112 National Science and Technology Council: Outstanding Research Award (2024)

8th Foundation for the Advancement of Outstanding Scholarship: Young Innovator Award (2020)

109 Chinese Institute of Electrical Engineering: Outstanding Young Electrical Engineer Award (2020)

2023 Institute of Information & Computing Machinery: K.T. Li Cornerstone Award (2024)

2020 Institute of Information & Computing Machinery: K.T. Li Young Researcher Award (2021)

2024 National Tsing Hua University: Tsing Hua Talent Development Fund Outstanding Research Award (2024)

2023 National Tsing Hua University: Outstanding Industry-University Research Award (2023)

2022 National Tsing Hua University: Industry Collaboration Excellence Award (2023)

2020 National Tsing Hua University: Industry Collaboration Excellence Award (2021)

2019 Ministry of Science and Technology: Future Tech Award (2019)

2018 Ministry of Science and Technology: Future Tech Award (2018)

2021 Merry Incorporated: Electroacoustics Thesis Award – Bronze Award (2021)

2019 Merry Incorporated: Electroacoustics Thesis Award – Bronze Award (2019)

2018 MediaTek: Geniusforhome Special Prize Award - Top 10 (2018)

2019 Taiwan Tech Star @ CES Eureka Park

Most Cited Journal published in 2014 up to 2016 (Journal of Speech Communication)

2007 Magna Cum Laude (2007)

Annenberg Fellowship, University of Southern California (2007-2009)

Undergraduate Dean's List (2003 – 2007)

2024 Merry Electroacoustics Thesis Award – Silver (advisor of the author: Huang-Cheng Chou)

2022 ACLCLP Ph.D. and Master's Thesis Award

2020 IEEE EMBC Best Paper (Top 15 Finalists)

2019 APSIPA ASC Best Regular Paper Award

2019 IEEE EMBC Best Paper (Asia Pacific Region)

2018 Interspeech Best Paper Award Candidate (Top 12)

2018 IEEE EMBC Best Paper (Top 15 Finalists)

2010 Interspeech Best Paper Award (Top 3)

2008 Interspeech Student Best Paper Award Candidate (Top 12)

2017 ROCLING Student Best Paper Award Candidate

2019 Interspeech ComParE series Stefan Steidl Computational Paralinguistics Award (Styrian Dialect Sub-Challenge Prize, Baby Sound Sub-Challenge Prize)

2009 Interspeech Emotion Challenge Winner (Classifier Challenge)

Honors Societies: Sigma Xi, Phi Kappa Phi, Tau Beta Pi, Eta Kappa Nu

Publications

Google Scholar Profile <http://scholar.google.com/citations?user=MGqWqOAAAAAJ&hl=en>

Book

- [1] **Chi-Chun Lee***, "Modeling Human Behaviors in Psychology Using Engineering Methods", Series in: Information Science and Technology, River Publishers', 2014. ISBN: 9788793102606.

Book Chapter

- [1] Yu-Fen Wang, Jeng-Lin Li, **Chi-Chun Lee**, Paul K Wallace, Bor-Sheng Ko, "Using Artificial Intelligence to Interpret Clinical Flow Cytometry Datasets for Automated Disease Diagnosis and/or Monitoring," in Teresa S. Hawley, Robert G. Hawley (Eds), Flow Cytometry Protocols, 2024. ISBN: 978-1-0716-3738-8.
- [2] **Chi-Chun Lee***, Kim Jangwon, Metallinou Angeliki, Busso Carlos, Lee Sungbok, and Shrikanth S. Narayanan, "Speech in Affective Computing", in R.A. Calvo, S.K. D'Mello, J. Gratch and A. Kappas (Eds), Handbook of Affective Computing: Oxford University Press, 2014. ISBN: 9780199942237.

Journal

- [1] Lucas Goncalves, Huang-Cheng Chou, Ali N. Salman, **Chi-Chun Lee**, Carlos Busso, "Contextual Attention for Robust Audio-Visual Emotion Recognition", IEEE Open Journal of Signal Processing 2026, doi: 10.1109/OJSP.2025.3648710
- [2] Yih-Jyh Lin, Da-Liang Ou, Yung-Yeh Su, Chia-Lang Hsu, Chin-Fu Hsiao, Bor-Sheng Ko, San-Chi Chen, Hung-Wei Wang, Jing-Houng Wang, Yao-Ming Wu, Yung-Ming Jeng, Wei-Chen Lee, Shu-Cheng Chou, Teng-Wei Chen, Chang-Fang Chiu, Shiuan Lin, Ching-Hung Hsieh, **Chi-Chun Lee**, Yen-Shen Shen, Ann-Lii Cheng, Li-Tzong Chen, Chiun Hsu, "Nivolumab plus ipilimumab for potentially resectable hepatocellular carcinoma: long-term efficacy and biomarker exploration", Hepatology 2025, doi: 10.1016/j.jhep.2025.08.035
- [3] Lus Martinez-Lucas, Ali Salman, Seong-Gyum Leem, Woan-Shiuan Chien, Shreya G. Upadhyay, **Chi-Chun Lee**, Carlos Busso, "Affective Priming in Emotional Annotations and its Effect on Speech Emotion Recognition", in IEEE Transactions on Affective Computing, 2025, doi: 10.1109/TAFFC.2025.3597034
- [4] Yen-Chin Wang, Chung-Yuan Cheng, Chi-Shin Wu, **Chi-Chun Lee**, Susan Shur-Fen Gau, "Clinical Correlates of Errors in Machine Learning Diagnostic Model of Autism Spectrum Disorder: Impact of Sample Cohorts", Autism 2025, doi: 10.1177/13623613251360271
- [5] Yu-Fen Wang, En-Ping Chu, Fong-Ci Lin, Huan-Yu Chen, Tsung-Chih Chen, Joseph Hanson, Joseph D. Tario, Kai Fu, Sara A. Monaghan, Paul K. Wallace, **Chi-Chun Lee**, Bor-Sheng Ko, "A Machine Learning Framework for Cross-Institute Standardized Analysis of Flow Cytometry in Differentiating Acute Myeloid Leukemia from Non-Neoplastic Conditions", in Computers in Biology and Medicine, Volume 193, July 2025, 110394. doi: 10.1016/j.combiomed.2025.110394
- [6] Jing-Tong Tzeng, Jeng-Lin Li, Huan-Yu Chen, Chun-Hsiang Huang, Chi-Hsin Chen, Cheng-Yi Fan, Edward Pei-Chuan Huang, **Chi-Chun Lee***, "Improving the Robustness and Clinical Applicability of Automatic Respiratory Sound Classification Using Deep Learning-Based Audio Enhancement: Algorithm Development and Validation", in JMIR AI, 2025, vol. 4, e67239. doi: 10.2196/67239
- [7] Lucas Goncalves, Huang-Cheng Chou, Ali N. Salman, **Chi-Chun Lee**, Carlos Busso, "Jointly Learning from Unimodal and Multimodal-Rated Labels in Audio-Visual Emotion Recognition", in IEEE Open Journal of Signal Processing, 2025, vol. 6, pp. 165-174. doi: 10.1109/OJSP.2025.3530274.
- [8] Shreya G. Upadhyay, Luz Martinez-Lucas, William Katz, Carlos Busso, **Chi-Chun Lee***, "Phonetically-Anchored Domain Adaptation for Cross-Lingual Speech Emotion Recognition", in IEEE Transactions on Affective Computing, 2025, Preprints. doi: 10.1109/TAFFC.2025.3530105.

- [9] Woan-Shiuan Chien, Shreya Upadhyay, Wei-Cheng Lin, Carlos Busso, **Chi-Chun Lee***, "Differential Impacts of Monologue and Conversation on Speech Emotion Recognition", in IEEE Transactions on Affective Computing, 2024, Preprints. doi: 10.1109/TAFFC.2024.3509138.
- [10] Chun-Hsiang Huang, Chi-Hsin Chen, Jing-Tong Tzeng, An-Yan Chang, Cheng-Yi Fan, Chih-Wei Sung, **Chi-Chun Lee**, Edward Pei-Chuan Huang, "The unreliability of crackles: insights from a breath sound study using physicians and artificial intelligence", in npj Primary Care Respiratory Medicine, 2024, vol. 34, no. 28. doi:10.1038/s41533-024-00392-9.
- [11] Huang-Cheng Chou, Lucas Goncalves, Seong-Gyun Leem, Ali N. Salman, **Chi-Chun Lee**, and Carlos Busso, "Minority Views Matter: Evaluating Speech Emotion Classifiers with Human Subjective Annotations by an All-Inclusive Aggregation Rule", in IEEE Transactions on Affective Computing, 2024, Preprints. doi: 10.1109/TAFFC.2024.3411290.
- [12] Shreya G. Upadhyay, Woan-Shiuan Chien, Bo-Hao Su, **Chi-Chun Lee***, "Learning with Rater-Expanded Label Space to Improve Speech Emotion Recognition", in IEEE Transactions on Affective Computing, vol. 15, no. 03, pp. 1539-1552, 2024. doi: 10.1109/TAFFC.2024.3360428.
- [13] Chin-Po Chen, Ho-Hsien Pan, Susan Shur-Fen Gau, **Chi-Chun Lee***, "Using Measures of Vowel Space for Autistic Traits Characterization", in IEEE/ACM Transactions on Audio, Speech and Language Processing, 2023, pp.591-607. doi: 10.1109/TASLP.2023.3330605.
- [14] Huan-Yu Chen, Hui-Min Wang, Ching-Heng Lin, Rob Yang, **Chi-Chun Lee***, "Lung Cancer Prediction using Electronic Claims Records: A Transformer-based Approach", IEEE Journal of Biomedical and Health Informatics, 2023, pp. 6062-6073. doi: 10.1109/JBHI.2023.3324191.
- [15] **Chi-Chun Lee**, Theodora Chaspari, Emily Mower Provost and Shrikanth S Narayanan, "An Engineering View on Emotions and Speech: From Analysis and Predictive Models to Responsible Human-Centered Applications", Proceedings of the IEEE, 2023, pp. 1-17. doi: 10.1109/JPROC.2023.3276209.
- [16] Yun-Shao Lin, Yi-Ching Liu, and **Chi-Chun Lee***, "An Interaction Process Guided Framework for Small-Group Performance Prediction", ACM Transactions on Multimedia Computing Communications and Applications, 2022, pp. 1-25. doi: 10.1145/3558768
- [17] Jeng-Lin Li and **Chi-Chun Lee***, "An Enroll-to-Verify Approach for Cross-Task Unseen Emotion Class Recognition", IEEE Transactions on Affective Computing, 2022, pp. 1-13. doi: 10.1109/TAFFC.2022.3183166.
- [18] Jeng-Lin Li, Yun-Chun Lin, Yu-Fen Wang, Sara A. Monaghan, Bor-Sheng Ko, and **Chi-Chun Lee***, "A Chunking-for-Pooling Strategy for Cytometric Representation Learning for Automatic Hematologic Malignancy Classification", IEEE Journal of Biomedical and Health Informatics, 2022, pp. 1-1. doi: 10.1109/JBHI.2022.3175514.
- [19] Bo-Hao Su and **Chi-Chun Lee***, "Unsupervised Cross-Corpus Speech Emotion Recognition Using a Multi-Source Cycle-GAN", IEEE Transactions on Affective Computing, 2022, no. 01, pp. 1-1. doi: 10.1109/TAFFC.2022.3146325.
- [20] Su-Fen Cheng, Chien-Lin Kuo, Chi-Chun Lee, Serene Hsin-Min Wei, and Chu-Yu Huang, "Innovative Artificial Intelligence-Facilitated TED Talks for Improving Graduate Students' Teaching and Presentation Skills", Nurse Educator, 2022. doi: 10.1097/NNE.0000000000001108.
- [21] Hao-Chun Yang and **Chi-Chun Lee***, "A Media-Guided Attentive Graphical Network for Personality Recognition Using Physiology", IEEE Transactions on Affective Computing, 2021. doi: 10.1109/taffc.2021.3090040.
- [22] Fu-Sheng Tsai, Wei-Wen Chang, and **Chi-Chun Lee***, "A Social Condition-Enhanced Network for Recognizing Power Distance using Expressive Prosody and Intrinsic Brain Connectivity", IEEE Transactions on Multimedia, 2021. doi: 10.1109/TMM.2021.3075091.
- [23] Sara A. Monaghan, Jeng-Lin Li, Yen-Chun Liu, Ming-Ya Ko, Michael Boyiadzis, Ting-Yu Chang, Yu-Fen Wang, **Chi-Chun Lee**, Steven H. Swerdlow, and Bor-Sheng Ko, "A Machine Learning Approach to the Classification of Acute Leukemias and Distinction from Nonneoplastic Cytopenias using Flow Cytometry Data", American Journal of Clinical Pathology, 2021. doi: 10.1093/ajcp/aqab148.
- [24] **Chi-Chun Lee**, Kusha Sridhar, Jeng-Lin Li, Wei-Cheng Lin, Bo-Hao Su, and Carlos Busso, "Deep Representation Learning for Affective Speech Signal Analysis and Processing: Preventing unwanted signal disparities", IEEE Signal Processing Magazine, vol. 38, no. 6, pp. 22-38, 2021. doi: 10.1109/MSP.2021.3105939.
- [25] Huang-Cheng Chou, Yi-Wen Liu, and **Chi-Chun Lee***, "Automatic Deception Detection using Multiple Speech and Language Communicative Descriptors in Dialogs", APSIPA Transactions on Signal and Information Processing, vol.10, 2021. doi: 10.1017/atsip.2021.6.
- [26] Su-Fen Cheng, Chien-Lin Kuo, **Chi-Chun Lee**, Serene Hsin-Min Wei, and Chu-Yu Huang, "Empowering the public during the COVID pandemic through interactive social media platform", Nursing Outlook, vol. 69, no. 5, pp. 780-782, 2021. doi: 10.1016/j.outlook.2021.04.002.

- [27] Chun-Min Chang and **Chi-Chun Lee***, "Learning Enhanced Acoustic Latent Representation for Small Scale Affective Corpus with Adversarial Cross Corpora Integration", IEEE Transactions on Affective Computing, 2021. doi: 10.1109/TAFFC.2021.3126145.
- [28] Kuo-Cheng Wang, Chen-June Seak, Fu-Sheng Tsai, Cheng-Yu Chien, **Chi-Chun Lee**, Chip-Jin Ng, Bo-Cyuan Wang, and Yi-Ming Weng, "Facial expression differences indicate pain improvement at the emergency department", Signa Vitae, Vol. 17, pp. 111-118, 2021. doi: 10.22514/sv.2020.16.0105.
- [29] Chun-Min Chang, Gao-Yi Chao, and **Chi-Chun Lee***, "Enforcing Semantic Consistency for Cross Corpus Emotion Prediction using Adversarial Discrepancy Learning", IEEE Transactions on Affective Computing, pp. 1-1, 2021. doi: 10.1109/taffc.2021.3111110.
- [30] Yun-Shao Lin, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "A Multimodal Interlocutor-Modulated Attentional BLSTM for Classifying Autism Subgroups During Clinical Interviews", IEEE Journal of Selected Topics in Signal Processing, vol. 14, no. 2, pp. 299-311, 2020. doi: 10.1109/Jstsp.2020.2970578.
- [31] Wei-Cheng Lin and **Chi-Chun Lee***, "Computational Analyses of Thin-Sliced Behavior Segments in Session-Level Affect Perception", IEEE Transactions on Affective Computing, vol. 11, no. 4, pp. 560-573, 2020. doi: 10.1109/Taffc.2018.2816654.
- [32] Gary C-W Shyi, Peter K-H Cheng, S-T Tina Huang, **C-C Lee**, Felix F-S Tsai, Wan-Ting Hsieh, Becky Y-C Chen, "Predicting Performances on Processing and Memorizing East Asian Faces from Brain Activities in Face-Selective Regions: A Neurocomputational Approach", Frontiers in Human Neuroscience, vol. 14, 2020. doi: 10.3389/fnhum.2020.00269.
- [33] Jeng-Lin Li, Tzu-Yun Huang, Chun-Min Chang, and **Chi-Chun Lee***, "A Waveform-Feature Dual Branch Acoustic Embedding Network for Emotion Recognition", Frontiers in Computer Science, vol. 2, p. 13, 2020. doi: 10.3389/fcomp.2020.00013
- [34] Shih-Yen Lin, **Chi-Chun Lee**, Yong-Sheng Chen, and Li-Wei Kuo, "Investigation of functional brain network reconfiguration during vocal emotional processing using graph-theoretical analysis", Social Cognitive and Affective Neuroscience, vol. 14, no. 5, pp. 529-538, May 2019. doi: 10.1093/scan/nsz025.
- [35] Chen-Ying Hung, Ching-Heng Lin, Tsuo-Hung Lan, Giia-Sheun Peng, and **Chi-Chun Lee***, "Development of an intelligent decision support system for ischemic stroke risk assessment in a population-based electronic health record database", PLoS One, vol. 14, no. 3, p. e0213007, 2019. doi: 10.1371/journal.pone.0213007.
- [36] Chin-Po Chen, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "Toward differential diagnosis of autism spectrum disorder using multimodal behavior descriptors and executive functions", Computer Speech and Language, vol. 56, pp. 17- 35, Jul 2019. doi: 10.1016/j.csl.2018.12.003.
- [37] Min-Hsuan Lin, Huang-Cheng Chou, Yu-Fen Chen, Wangta Liu, **Chi-Chun Lee**, Lawrence Yu-Min Liu, and Yung-Jen Chuang, "Development of a rapid and economic in vivo electrocardiogram platform for cardiovascular drug assay and electrophysiology research in adult zebrafish", Scientific reports, vol. 8, no. 1, p. 15986, Oct 30 2018. doi: 10.1038/s41598-018-33577-7.
- [38] Bor-Sheng Ko, Yu-Fen Wang, Jeng-Lin Li, Chi-Cheng Li, Pei-Fang Weng, Szu-Chun Hsu, Hsin-An Hou, Huai-Hsuan Huang, Ming Yao, Chien-Ting Lin, Jia-Hou Liu, Cheng-Hong Tsai, Tai-Chung Huang, Shang-Ju Wu, Shang-Yi Huang, Wen-Chien Chou, Hwei-Fang Tien, **Chi-Chun Lee**, and Jih-Luh Tang, "Clinically validated machine learning algorithm for detecting residual diseases with multicolor flow cytometry analysis in acute myeloid leukemia and myelodysplastic syndrome", EBioMedicine, vol. 37, pp. 91-100, Nov 2018. doi: 10.1016/j.ebiom.2018.10.042.
- [39] Tassadaq Hussain, Sabato Marco Siniscalchi, **Chi-Chun Lee**, Syu-Siang Wang, Yu Tsao, and Wen-Hung Liao, "Experimental Study on Extreme Learning Machine Applications for Speech Enhancement", IEEE Access, vol. 5, pp. 25542-25554, 2017. doi: 10.1109/Access.2017.2766675.
- [40] Shan-Wen Hsiao, Hung-Ching Sun, Ming-Chuan Hsieh, Ming-Hsueh Tsai, Yu Tsao, and **Chi-Chun Lee***, "Toward Automating Oral Presentation Scoring During Principal Certification Program Using Audio-Video Low-Level Behavior Profiles", IEEE Transactions on Affective Computing, vol. 10, no. 4, pp. 552-567, 2017. doi: 10.1109/taffc.2017.2749569.
- [41] Daniel Bone, **Chi-Chun Lee**, Theodora Chaspari, James Gibson, and Shrikanth Narayanan, "Signal Processing and Machine Learning for Mental Health Research and Clinical Applications [Perspectives]", IEEE Signal Processing Magazine, vol. 34, no. 5, pp. 196-195, 2017. doi: 10.1109/msp.2017.2718581.
- [42] Stephenson J. Beck, Annika L. Meinecke, Yoichi Matsuyama, and **Chi-Chun Lee***, "Initiating and Maintaining Collaborations and Facilitating Understanding in Interdisciplinary Group Research", Small Group Research, vol. 48, no. 5, pp. 532-543, Oct 2017. doi: 10.1177/1046496417721746.
- [43] Angeliki Metallinou, Zhaojun Yang, **Chi-Chun Lee**, Carlos Busso, Sharon Carnicke, and Shrikanth Narayanan, "The USC

- CreativeIT database of multimodal dyadic interactions: from speech and full body motion capture to continuous emotional annotations", *Language Resources and Evaluation*, vol. 50, no. 3, pp. 497-521, 2016. doi: 10.1007/s10579-015-9300-0.
- [44] Daniel Bone, Matthew S. Goodwin, Matthew P. P. Black, **Chi-Chun Lee**, Kartik Audhkhasi, and Shrikanth Narayanan, "Applying machine learning to facilitate autism diagnostics: pitfalls and promises", *J Autism Dev Disord*, vol. 45, no.5, pp. 1121-36, May 2015. doi: 10.1007/s10803-014-2268-6.
 - [45] **Chi-Chun Lee***, Athanasios Katsamanis, Matthew P. P. Black, Brian R.. Baucom, Andrew Christensen, Panayiotis G.. Georgiou, and Shrikanth Narayanan, "Computing vocal entrainment: A signal-derived PCA-based quantification scheme with application to affect analysis in married couple interactions", *Computer Speech and Language*, vol. 28, no. 2, pp. 518-539, Mar 2014. doi: 10.1016/j.csl.2012.06.006.
 - [46] Daniel Bone, **Chi-Chun Lee**, and Shrikanth Narayanan, "Robust Unsupervised Arousal Rating: A Rule-Based Framework with Knowledge-Inspired Vocal Features", *IEEE Transactions on Affective Computing*, vol. 5, no. 2, pp. 201-213, Apr-Jun2014. doi: 10.1109/TAFFC.2014.2326393.
 - [47] Daniel Bone, **Chi-Chun Lee**, Matthew P. P. Black, Marian E. Williams, Sungbok Lee, Pat Levitt, and Shrikanth Narayanan, "The Psychologist as an Interlocutor in Autism Spectrum Disorder Assessment: Insights From a Study of Spontaneous Prosody", *Journal of Speech Language and Hearing Research*, vol. 57, no. 4, pp. 1162-1177, Aug 2014. doi: 10.1044/2014_Jslhr-S-13-0062.
 - [48] Matthew P. P. Black, Athanasios Katsamanis, Brian R.. Baucom, **Chi-Chun Lee**, Adam C. Lammert, Andrew Christensen, Panayiotis G.. Georgiou, and Shrikanth Narayanan, "Toward automating a human behavioral codingsystem for married couples' interactions using speech acoustic features", *Speech Communication*, vol. 55, no. 1, pp. 1-21, Jan 2013. doi: 10.1016/j.specom.2011.12.003.
 - [49] **Chi-Chun Lee***, Emily Mower, Carlos Busso, Sungbok Lee, and Shrikanth Narayanan, "Emotion recognition using a hierarchical binary decision tree approach", *Speech Communication*, vol. 53, no. 9-10, pp. 1162-1171, Nov-Dec 2011. doi: 10.1016/j.specom.2011.06.004.
 - [50] Carlos Busso, Murtaza Bulut, **Chi-Chun Lee**, Abe Kazemzadeh, Emily Mower, Samuel Kim, Jeannette N. Chang, Sungbok Lee, and Shrikanth Narayanan, "IEMOCAP: interactive emotional dyadic motion capture database", *Language Resources and Evaluation*, vol. 42, no. 4, pp. 335-359, Dec 2008. doi: 10.1007/s10579-008-9076-6.

Conference Proceedings

- [1] Jie-Shiang Yang, Jing-Tong Tzeng, **Chi-Chun Lee***, "Personalized Federated Learning with Fuzzy Clustering for Dysarthric Speech Recognition", in *IEEE Automatic Speech Recognition and Understanding Workshop (ASRU)*, 2025
- [2] Ya-Tse Wu, **Chi-Chun Lee***, "ASR for Affective Speech: Investigating Impact of Emotion and Speech Generative Strategy", in *IEEE Automatic Speech Recognition and Understanding Workshop (ASRU)*, 2025
- [3] Jing-Han Chen, Bo-Hao Su, Ya-Tse Wu, **Chi-Chun Lee***, "RE-LLM: Refining Empathetic Speech-LLM Responses by Integrating Emotion Nuance" in *IEEE Automatic Speech Recognition and Understanding Workshop (ASRU)*, 2025
- [4] Shreya Upadhyay, Carlos Busso, **Chi-Chun Lee***, "Speaker Style-Aware Phoneme Anchoring for Improved Cross-Lingual Speech Emotion Recognition" in *IEEE Automatic Speech Recognition and Understanding Workshop (ASRU)*, 2025
- [5] Woan-Shiuan Chien, Mei-Yen Tsai, **Chi-Chun Lee***, "Graph Structure Learning with Local Connectivity Refinement for Improved Physiological Emotion Recognition" in *IEEE Machine Learning for Signal Processing (MLSP)*, 2025
- [6] Yu-Sheng Lin, Ching-Yu Yang, Hsin-Hang Chou, Ya-Tse Wu, Bo-Hao Su, **Chi-Chun Lee***, "Defend for Self-Vocoding: A Novel Enhanced Decoder Network for Watermark Recovery", in *Interspeech 2025*, p. 5098-5102, doi: 10.21437/Interspeech.2025-1091
- [7] Hsin-Hang Chou, Yun-Shao Lin, Ching-Chin Sung, Yu Tsao, **Chi-Chun Lee***, "ZSDEV: Zero-Shot Diffusion-based Emotional Voice Conversion with Disentangled Mechanism", in *Interspeech 2025*, 4398-4402, doi: 10.21437/Interspeech.2025-1101
- [8] Jing-Tong Tzeng, Bo-Hao Su, Ya-Tse Wu, Hsing-Hang Chou, **Chi-Chun Lee***, "Lessons Learnt: Revisit Key Training Strategies for Effective Speech Emotion Recognition in the Wild", in *Interspeech 2025*, p. 4708-4712, doi: 10.21437/Interspeech.2025-1357
- [9] Woan-Shiuan Chien, Huan-Yu Chen, **Chi-Chun Lee***, "Gradient-Aware Data Augmentation for Federated Stress Detection under Data Incompleteness", in *IEEE EMBC 2025*.
- [10] Huan-Yu Chen, Woan-Shiuan Chien, Yu-Fen Wang, Bor-Sheng Ko, **Chi-Chun Lee***, "Instrument-Aware Representation Learning for Robust Cross-Site Flow Cytometry Integration", in *IEEE EMBC 2025*.

- [11] Huan-Yu Chen, Woan-Shiuan Chien, Ching-Heng Lin, **Chi-Chun Lee***, "Leveraging Foundation Models for Clinically Instructed Tumor Image Synthesis in Renal Cell Carcinoma", in IEEE ISBI 2025, doi: 10.1109/ISBI60581.2025.10980760
- [12] **Chi-Chun Lee**, Huang-Cheng Chou, Ali Salman, Lucas Goncalves, Busso Carlos, "Jointly Learning from Unimodal and Multimodal-Rated Labels in Audio-Visual Emotion Recognition", ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, p. 165 - 174, doi: 10.1109/OJSP.2025.3530274
- [13] Huang-Cheng Chou, Haibin Wu, **Chi-Chun Lee***, "Stimulus Modality Matters: Impact of Perceptual Evaluations from Different Modalities on Speech Emotion Recognition System Performance", ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10890558.
- [14] Pin-Jhao Chen, Woan-Shiuan Chien, **Chi-Chun Lee***, "Disentangle Heart Rate Signals for Improved Stress Detection" ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10888811.
- [15] Xin-Yu Chen, Yu-Ming Chen, Chin-Po Chen, Bo-Hao Su, Susan Shur-Fen Gau, **Chi-Chun Lee***, "SocialRecNet: A Multimodal LLM-Based Framework for Assessing Social Reciprocity in Autism Spectrum Disorder" ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10888811.
- [16] Shreya Upadhyay, Ali Salman, Carlos Busso, **Chi-Chun Lee***, "Mouth Articulation-Based Anchoring for Improved Cross-Corpus Speech Emotion Recognition" ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10890262.
- [17] Jing-Chun Wang, Woan-Shiuan Chien, **Chi-Chun Lee***, "A Dynamic Edge-Selection Mechanism in HRV Hypergraph Learning for Improved Stress Detection" ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10890191.
- [18] Bo-Hao Su, Shreya Upadhyay, **Chi-Chun Lee***, "Toward Zero-Shot Speech Emotion Recognition by Utilizing LLMs in the Absence of Target Data" ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10889305.
- [19] Chun-Chieh Weng, Huan-Yu Chen, Jing-Tong Tseng, Ching-Heng Lin, Po-Chih Kuo, **Chi-Chun Lee***, "Mask Augmentation For Tumor Classification In Medical Images" ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10890833.
- [20] Shreya Upadhyay, Woan-Shiuan Chien, **Chi-Chun Lee***, "Is It Still Fair? Investigating Gender Fairness in Cross-Corpus Speech Emotion Recognition", ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10889760.
- [21] Jing-Tong Tseng, Seong-Gyun Leem, Ali Salman, **Chi-Chun Lee**, Carlos Busso, "Noise-Robust Speech Emotion Recognition Using Shared Self-Supervised Representations with Integrated Speech Enhancement" ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10887569.
- [22] An-Yan Chang, Jing-Tong Tzeng, Huan-Yu Chen, Chun-Hsiang Huang, Edward Pei-Chuan Huang, **Chi-Chun Lee***, "Valve Token Masked Autoencoder for Missing Recordings on Cardiac Abnormality Classification", ICASSP 2025 - 2025 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Hyderabad, India, 2025, pp. 1-5, doi: 10.1109/ICASSP49660.2025.10889947.
- [23] Haibin Wu, Huang-Cheng Chou, Kai-Wei Chang, Lucas Goncalves, Jiawei Du, Jyh-Shing Roger Jang, **Chi-Chun Lee**, Hung-yi Lee, "Empower Typed Descriptions by Large Language Models for Speech Emotion Recognition", 2024 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), Macau, Macao, 2024, pp. 1-6, doi: 10.1109/APSIPAASC63619.2025.10848758.
- [24] Wenze Ren, Yi-Cheng Lin, Huang-Cheng Chou, Haibin Wu, Yi-Chiao Wu, Hung-yi Lee, **Chi-Chun Lee**, Hsin-Min Wang, Yu Tsao, "EMO-Codec: An In-Depth Look at Emotion Preservation Capacity of Legacy and Neural Codec Models With Subjective and Objective Evaluations" 2024 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), Macau, Macao, 2024, pp. 1-6, doi: 10.1109/APSIPAASC63619.2025.10849259.
- [25] Pin-Jhao Chen, Woan-Shiuan Chien, Huan-Yu Chen, **Chi-Chun Lee***, "Stress Detection Using HRV Features Augmentation Based on Heart Rate Signal Transformation", 2024 IEEE 20th International Conference on Body Sensor Networks (BSN), Chicago, IL, USA, 2024, pp. 1-4, doi: 10.1109/BSN63547.2024.10780687.

- [26] Jing-Chun Wang, Woan-Shiuan Chien, Huan-Yu Chen, **Chi-Chun Lee***, "In-The-Wild HRV-Based Stress Detection Using Individual-Aware Metric Learning", 2024 IEEE 20th International Conference on Body Sensor Networks (BSN), Chicago, IL, USA, 2024, pp. 1-4, doi: 10.1109/BSN63547.2024.10780546.
- [27] Woan-Shiuan Chien, **Chi-Chun Lee***, "Understanding Missing Data Bias in Longitudinal Mental Stress Detection", 2024 IEEE 20th International Conference on Body Sensor Networks (BSN), Chicago, IL, USA, 2024, pp. 1-4, doi: 10.1109/BSN63547.2024.10780500.
- [28] Huang-Cheng Chou, Haibin Wu, Lucas Goncalves, Seong-Gyun Leem, Ali Salman, Carlos Busso, Hung-yi Lee, **Chi-Chun Lee***, "Embracing Ambiguity and Subjectivity Using the All-Inclusive Aggregation Rule for Evaluating Multi-Label Speech Emotion Recognition Systems", 2024 IEEE Spoken Language Technology Workshop (SLT), Macao, 2024, pp. 502-509, doi: 10.1109/SLT61566.2024.10832302.
- [29] Haibin Wu, Huang-Cheng Chou, Kai-Wei Chang, Lucas Goncalves, Jiawei Du, Jyh-Shing Roger Jang, **Chi-Chun Lee**, Hung-yi Lee, "Open-Emotion: A Reproducible Emo-Superb for Speech Emotion Recognition Systems", 2024 IEEE Spoken Language Technology Workshop (SLT), Macao, 2024, pp. 510-517, doi: 10.1109/SLT61566.2024.10832296.
- [30] Yu-Fen Wang, Yi-Hsuan Li, Guo-Hung Li, Huan-Yu Chen, Joseph Hanson, Joseph D. Tario, Kai-Fu, Sara A Monaghan, Paul Wallace, **Chi-Chun Lee**, Bor-Sheng Ko, "Enhancing Access and Reproducibility of AML Flow Cytometry Data Analysis through Machine Learning Based Automated Cross-Panel Classification at Sample and Cell Level", 2024 International Society for Advancement of Cytometry (ISAC) – CYTO, Edinburgh, Scotland, 2024.
- [31] Ching-Yu Yang, Shreya Upadhyay, Ya-Tse Wu, Bo-Hao Su, **Chi-Chun Lee***, "RW-VoiceShield: Raw Waveform-based Adversarial Attack on One-shot Voice Conversion". Proc. Interspeech 2024, 2730-2734, doi: 10.21437/Interspeech.2024-458.
- [32] Woan-Shiuan Chien, **Chi-Chun Lee***, "An Investigation of Group versus Individual Fairness in Perceptually Fair Speech Emotion Recognition". Proc. Interspeech 2024, 3205-3209, doi: 10.21437/Interspeech.2024-461.
- [33] Yin-Tse Lin, Shreya Upadhyay, Bo-Hao Su, **Chi-Chun Lee***, "SWiBE: A Parameterized Stochastic Diffusion Process for Noise-Robust Bandwidth Expansion". Proc. Interspeech 2024, 2265-2269, doi: 10.21437/Interspeech.2024-463.
- [34] Shreya Upadhyay, Carlos Busso, **Chi-Chun Lee***, "A Layer-Anchoring Strategy for Enhancing Cross-Lingual Speech Emotion Recognition". Proc. Interspeech 2024, 4693-4697, doi: 10.21437/Interspeech.2024-469.
- [35] Wei-Tung Hsu, Chin-Po Chen, Yun-Shao Lin, **Chi-Chun Lee***, "A Cluster-based Personalized Federated Learning Strategy for End-to-End ASR of Dementia Patients". Proc. Interspeech 2024, 4693-4697, doi: 10.21437/Interspeech.2024-470.
- [36] Hsing-Hang Chou, Woan-Shiuan Chien, Ya-Tse Wu, **Chi-Chun Lee***, "An Inter-Speaker Fairness-Aware Speech Emotion Regression Framework". Proc. Interspeech 2024, 3190-3194, doi: 10.21437/Interspeech.2024-471.
- [37] Ya-Tse Wu, Jingyao Wu, Vidhyasaharan Sethu, **Chi-Chun Lee***, "Can Modelling Inter-Rater Ambiguity Lead To Noise-Robust Continuous Emotion Predictions?". Proc. Interspeech 2024, 3714-3718, doi: 10.21437/Interspeech.2024-482.
- [38] Yi-Cheng Lin, Haibin Wu, Huang-Cheng Chou, **Chi-Chun Lee**, Hung-yi Lee, "Emo-bias: A Large Scale Evaluation of Social Bias on Speech Emotion Recognition". Proc. Interspeech 2024, 4633-4637, doi: 10.21437/Interspeech.2024-1073.
- [39] Wei-Tung Hsu, Chin-Po Chen, **Chi-Chun Lee***, "Concealing Medical Condition by Node Toggling in ASR for Dementia Patients", in IEEE ICASSP 2024, 2024, pp. 12496-12500, doi: 10.1109/ICASSP48485.2024.10446570.
- [40] Woan-Shiuan Chien, Shreya G. Upadhyay, **Chi-Chun Lee***, "Balancing Speaker-Rater Fairness for Gender-Neutral Speech Emotion Recognition", in IEEE ICASSP 2024, 2024, pp. 11861-11865, doi: 10.1109/ICASSP48485.2024.10447167.
- [41] An-Yan Chang, Jing-Tong Tzeng, Huan-Yu Chen, Chih-Wei Sung, Chun-Hsiang Huang, Edward Pei-Chuan Huang, **Chi-Chun Lee***, "GaP-aug: Gamma Patch-Wise Correction Augmentation Method for Respiratory Sound Classification", in IEEE ICASSP 2024, 2024, pp. 551-555, doi: 10.1109/ICASSP48485.2024.10447967.
- [42] Po-Chen Lin, Jeng-Lin Li, Woan-Shiuan Chien, **Chi-Chun Lee***, "In-the-Wild Physiological-based Stress Detection Using Federated Strategy", in IEEE ICASSP 2024, 2024, pp. 1681-1685, doi: 10.1109/ICASSP48485.2024.10446004.
- [43] Snehit Chunarkar, Bo-Hao Su, **Chi-Chun Lee***, "STELIN-US: A Spatio-Temporally Linked Neighborhood Urban Sound Database", in DCASE 2023, 2023, pp.21-25.
- [44] Shreya G. Upadhyay, Woan-Shiuan Chien, Bo-Hao Su, Lucas Goncalves, Ya-Tse Wu, Ali N. Salman, Carlos Busso and **Chi-Chun Lee***, "An Intelligent Infrastructure Toward Large Scale Naturalistic Affective Speech Corpora Collection", in AAAC ACII 2023, 2023.
- [45] Luz Martinez-Lucas, Ali Salman, Seong-Gyun Leem, Shreya Upadhyay, **Chi-Chun Lee**, Carlos Busso, "Analyzing the Effect of Affective Priming on Emotional Annotations", in AAAC ACII 2023, 2023.
- [46] Ya-Tse Wu and **Chi-Chun Lee***, "MetricAug: A Distortion Metric-Lead Augmentation Strategy for Training Noise-Robust Speech Emotion Recognizer", in INTERSPEECH 2023, 2023, pp. 3587-3591, doi: 10.21437/Interspeech.2023-

- [47] Ya-Tse Wu, Yuan-Ting Chang, Shao-Hao Lu, Jing-Yi Chuang and **Chi-Chun Lee***, "A Context-Constrained Sentence Modeling for Deception Detection in Real Interrogation", in INTERSPEECH 2023, 2023, pp. 3582-3586, doi: 10.21437/Interspeech.2023-890.
- [48] Yin-Tse Lin, Bo-Hao Su, Chi-Han Lin, Shih-Chan Kuo, Jyh-Shing Roger Jang and **Chi-Chun Lee***, "Noise-Robust Bandwidth Expansion for 8K Speech Recordings", in INTERSPEECH 2023, 2023, pp. 5107-5111, doi: 10.21437/Interspeech.2023-857.
- [49] Shao-Hao Lu, Yun-Shao Lin and **Chi-Chun Lee***, "Speaking State Decoder with Transition Detection for Next Speaker Prediction", in INTERSPEECH 2023, 2023, pp. 1868-1872, doi: 10.21437/Interspeech.2023-830.
- [50] Huang-Cheng Chou, Lucas Goncalves, Seong-Gyun Leem, **Chi-Chun Lee** and Carlos Busso, "The Importance of Calibration: Rethinking Confidence and Performance of Speech Multi-label Emotion Classifiers", in INTERSPEECH 2023, 2023, pp. 641-645, doi: 10.21437/Interspeech.2023-1113.
- [51] Woan-Shiuan Chien and **Chi-Chun Lee***, "Achieving Fair Speech Emotion Recognition via Perceptual Fairness", in IEEE ICASSP 2023, 2023, pp. 1-5, doi: 10.1109/ICASSP49357.2023.10094984.
- [52] Shreya G. Upadhyay, Luz Martinez-Lucas, Bo-Hao Su, Wei-Cheng Lin, Woan-Shiuan Chien, Ya-Tse Wu, William Katz, Carlos Busso, and **Chi-Chun Lee***, "Phonetic Anchor-Based Transfer Learning To Facilitate Unsupervised Cross-Lingual Speech Emotion Recognition", in IEEE ICASSP 2023, 2023, pp. 1-5, doi: 10.1109/ICASSP49357.2023.10095250.
- [53] Po-Chien Hsu, Jeng-Lin Li, and **Chi-Chun Lee***, "Romantic and Family Movie Database: Towards Understanding Human Emotion and Relationship via Genre-Dependent Movies", in AAC ACII 2022, 2022, pp. 1-8, doi: 10.1109/ACII55700.2022.9953881
- [54] Woan-Shiuan Chien, Shreya G Upadhyay, Wei-Cheng Lin, Ya-Tse Wu, Bo-Hao Su, Carlos Busso, and **Chi-Chun Lee***, "Monologue versus Conversation: Differences in Emotion Perception and Acoustic Expressivity", in AAC ACII 2022, 2022, pp. 1-7, doi: 10.1109/ACII55700.2022.9953814.
- [55] Bo-Hao Su and **Chi-Chun Lee***, "Vaccinating SER to Neutralize Adversarial Attacks with Self-Supervised Augmentation Strategy", in INTERSPEECH 2022, 2022, pp. 1153-1157, doi: 10.21437/Interspeech.2022-10453
- [56] Yu-Lin Huang, Bo-Hao Su, Y.-W. Peter Hong, and **Chi-Chun Lee***, "An Attention-Based Method for Guiding Attribute-Aligned Speech Representation Learning", in INTERSPEECH 2022, 2022, pp. 5030-5034, doi: 10.21437/Interspeech.2022-10419.
- [57] Huang-Cheng Chou, **Chi-Chun Lee**, and Carlos Busso, "Exploiting Co-occurrence Frequency of Emotions in Perceptual Evaluations To Train A Speech Emotion Classifier", in INTERSPEECH 2022, 2022, pp. 161-165, doi: 10.21437/Interspeech.2022-11041.
- [58] Chun-Yu Chen, Yun-Shao Lin, and **Chi-Chun Lee***, "Emotion-Shift Aware CRF for Decoding Emotion Sequence in Conversation", in INTERSPEECH 2022, 2022, pp. 1148-1152, doi: 10.21437/Interspeech.2022-10438.
- [59] Shreya G Upadhyay, Bo Hao Su, and **Chi-Chun Lee***, "Improving Induced Valence Recognition by Integrating Acoustic Sound Semantics in Movies", in EUSIPCO 2022, 2022, pp. 16-20, doi: 10.23919/EUSIPCO55093.2022.9909846.
- [60] Meng-Han Lin, Jeng-Lin Li, and **Chi-Chun Lee***, "Improving Multimodal Movie Scene Segmentation Using Mixture of Acoustic Experts", in EUSIPCO 2022, 2022, pp. 6-10, doi: 10.23919/EUSIPCO55093.2022.9909561.
- [61] Chi- Yu Chen, Po-Chien Hsu, Tang-Chen Chang, Huan Ho, Min-Chun Hu, **Chi-Chun Lee**, Hui-Ju Chen, Hsin-Ju Mary Ko, Chia-Fan Lee, and Pei-Yi Wang, "Computer Vision Based Cognition Assessment for Developmental-Behavioral Screening", in IEEE ICHD 2022, 2022, pp. 151-156, doi: 10.1109/ICDH55609.2022.00031.
- [62] Chun-Chia Chiu, Jeng-Lin Li, Yu-Fen Wang, Bor-Sheng Ko, and **Chi-Chun Lee***, "A Coarse-to-Fine Pathology Patch Selection for Improving Gene Mutation Prediction in Acute Myeloid Leukemia", in IEEE EMBC 2022, 2022, pp. 3207-3210. doi: 10.1109/EMBC48229.2022.9871814.
- [63] Huang-Cheng Chou, Wei-Cheng Lin, **Chi-Chun Lee**, and Carlos Busso, "Exploiting Annotators' Typed Description of Emotion Perception to Maximize Utilization of Ratings for Speech Emotion Recognition", in IEEE ICASSP 2022, 2022, pp. 7717-7721. doi: 10.1109/ICASSP43922.2022.9746990.
- [64] Ya-Tse Wu, Jeng-Lin Li, and **Chi-Chun Lee***, "An Audio-Saliency Masking Transformer for Audio Emotion Classification in Movies", in IEEE ICASSP 2022, 2022, pp. 4813-4817. doi: 10.1109/icassp43922.2022.9746403.
- [65] Bo-Hao Su and **Chi-Chun Lee***, "A Conditional Cycle Emotion Gan for Cross Corpus Speech Emotion Recognition", in IEEE SLT 2021, 2021, pp. 351-357. doi: 10.1109/slt48900.2021.9383512.
- [66] Ya-Lin Huang, Hao-Chun Yang, and **Chi-Chun Lee***, "Federated Learning via Conditional Mutual Learning for Alzheimer's Disease Classification on T1w MRI", in IEEE EMBC 2021, 2021, pp. 2427-2432. doi: 10.1109/EMBC46164.2021.9630382.

- [67] Yu-Lin Huang, Bo-Hao Su, YW Peter Hong, and **Chi-Chun Lee***, "An Attribute-Aligned Strategy for Learning Speech Representation", in INTERSPEECH 2021, 2021, pp. 1179-1183. doi: 10.21437/Interspeech.2021-1341.
- [68] Huang-Cheng Chou, Woan-Shiuan Chien, Da-Cheng Juan, and **Chi-Chun Lee***, "Does it Matter When I Think You Are Lying?" Improving Deception Detection by Integrating Interlocutor's Judgements in Conversations", in ACL- IJCNLP 2021, 2021, pp. 1846-1860. doi: 10.18653/v1/2021.findings-acl.162.
- [69] Woan-Shiuan Chien, Huang-Cheng Chou, and **Chi-Chun Lee***, "Self-assessed Emotion Classification from Acoustic and Physiological Features within Small-group Conversation", in ACM ICMI 2021, 2021, pp. 230-239. doi: 10.1145/3461615.3485411.
- [70] Woan-Shiuan Chien, Huang-Cheng Chou, and **Chi-Chun Lee***, "Belongingness and Satisfaction Recognition from Physiological Synchrony with A Group-Modulated Attentive BLSTM under Small-group Conversation", in ACM ICMI 2021, 2021, pp. 220-229. doi: 10.1145/3461615.3485410.
- [71] Huan-Yu Chen, Yun-Shao Lin, and **Chi-Chun Lee***, "Through the Words of Viewers: Using Comment-Content Entangled Network for Humor Impression Recognition", in IEEE SLT 2021, 2021, pp. 1058-1064. doi: 10.1109/slt48900.2021.9383564.
- [72] Shun-Chang Zhong, Bo-Hao Su, Wei Huang, Yi-Ching Liu, and **Chi-Chun Lee***, "Predicting Collaborative Task Performance Using Graph Interlocutor Acoustic Network in Small Group Interaction", in INTERSPEECH 2020, 2020, pp. 3122-3126. doi: 10.21437/Interspeech.2020-1698.
- [73] Sung-Lin Yeh, Yun-Shao Lin, and **Chi-Chun Lee***, "A Dialogical Emotion Decoder for Speech Emotion Recognition in Spoken Dialog", in IEEE ICASSP 2020, 2020, pp. 6479-6483. doi: 10.1109/icassp40776.2020.9053561.
- [74] Sung-Lin Yeh, Yun-Shao Lin, and **Chi-Chun Lee***, "Speech Representation Learning for Emotion Recognition Using End-to-End ASR with Factorized Adaptation", in INTERSPEECH 2020, 2020, pp. 536-540. doi: 10.21437/Interspeech.2020-2524.
- [75] Hao-Chun Yang and **Chi-Chun Lee***, "A Siamese Content-Attentive Graph Convolutional Network for Personality Recognition Using Physiology", in IEEE ICASSP 2020, 2020, pp. 4362-4366. doi: 10.1109/icassp40776.2020.9054226.
- [76] Hao-Chun Yang and **Chi-Chun Lee***, "From Intended to Subjective: A Conditional Tensor Fusion Network for Recognizing Self-Reported Emotion Using Physiology", in APSIPA ASC 2020, pp. 900-904.
- [77] Shreya G Upadhyay, Bo-Hao Su, and **Chi-Chun Lee***, "Attentive Convolutional Recurrent Neural Network Using Phoneme-Level Acoustic Representation for Rare Sound Event Detection", in INTERSPEECH 2020, 2020, pp. 3102-3106. doi: 10.21437/Interspeech.2020-2585.
- [78] Bo-Hao Su, Chun-Min Chang, Yun-Shao Lin, and **Chi-Chun Lee***, "Improving Speech Emotion Recognition Using Graph Attentive Bi-Directional Gated Recurrent Unit Network", in INTERSPEECH 2020, 2020, pp. 506-510. doi: 10.21437/Interspeech.2020-1733.
- [79] Yun-Shao Lin and **Chi-Chun Lee***, "Predicting Performance Outcome with a Conversational Graph Convolutional Network for Small Group Interactions", in IEEE ICASSP 2020, 2020, pp. 8044-8048. doi: 10.1109/icassp40776.2020.9053308.
- [80] Jeng-Lin Li and **Chi-Chun Lee***, "Using Speaker-Aligned Graph Memory Block in Multimodally Attentive Emotion Recognition Network", in INTERSPEECH 2020, 2020, pp. 389-393. doi: 10.21437/Interspeech.2020-1688.
- [81] Jeng-Lin Li, Ting-Yu Chang, Yu-Fen Wang, Bor-Sheng Ko, Jih-Luh Tang, and **Chi-Chun Lee***, "A Knowledge-Reserved Distillation with Complementary Transfer for Automated FC-based Classification Across Hematological Malignancies", in IEEE EMBC 2020, 2020, pp. 5482-5485. doi: 10.1109/embc44109.2020.9176546.
- [82] Chen-Ying Hung, Huan-Yu Chen, Lawrence J. K. Wee, Ching-Heng Lin, and **Chi-Chun Lee***, "Deriving A Novel Health Index Using A Large-Scale Population Based Electronic Health Record With Deep Networks", in IEEE EMBC 2020, 2020, pp. 5872-5875. doi: 10.1109/embc44109.2020.9176454.
- [83] Ya-Lin Huang, Wan-Ting Hsieh, Hao-Chun Yang, and **Chi-Chun Lee***, "Conditional Domain Adversarial Transfer for Robust Cross-Site ADHD Classification Using Functional MRI", in IEEE ICASSP 2020, 2020, pp. 1190-1194. doi: 10.1109/icassp40776.2020.9054606.
- [84] Wan-Ting Hsieh, Jeremy Lefort-Besnard, Hao-Chun Yang, Li-Wei Kuo, and **Chi-Chun Lee***, "Behavior Score- Embedded Brain Encoder Network for Improved Classification of Alzheimer Disease Using Resting State fMRI", in IEEE EMBC 2020, 2020, pp. 5486-5489. doi: 10.1109/embc44109.2020.9175312.
- [85] Ming-Shan Gao, Fu-Sheng Tsai, and **Chi-Chun Lee***, "Learning a Phenotypic-Attribute Attentional Brain Connectivity Embedding for ADHD Classification using rs-fMRI", in IEEE EMBC 2020, 2020, pp. 5472-5475. doi: 10.1109/embc44109.2020.9175789.
- [86] Huang-Cheng Chou and **Chi-Chun Lee***, "Learning to Recognize Per-Rater's Emotion Perception Using Co-Rater

- Training Strategy with Soft and Hard Labels", in INTERSPEECH 2020, 2020, pp. 4108-4112. doi: 10.21437/Interspeech.2020-1714.
- [87] Huang-Cheng Chou and **Chi-Chun Lee***, "'Your Behavior Makes Me Think It Is a Lie': Recognizing Perceived Deception using Multimodal Data in Dialog Games", in APSIPA ASC 2020, 2020, pp. 393-402.
- [88] Woan-Shiuan Chien, Hao-Chun Yang, and **Chi-Chun Lee***, "Cross Corpus Physiological-based Emotion Recognition Using a Learnable Visual Semantic Graph Convolutional Network", in ACM MM 2020, 2020, pp. 2999-3006. doi: 10.1145/3394171.3413552.
- [89] Chin-Po Chen, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "Learning Converse-Level Multimodal Embedding to Assess Social Deficit Severity for Autism Spectrum Disorder", in IEEE ICME 2020, 2020, pp. 1-6. doi: 10.1109/icme46284.2020.9102869.
- [90] Chun-Min Chang, Huan-Yu Chen, Hsiang-Chun Chen, and **Chi-Chun Lee***, "Sensing with Contexts: Crying Reason Classification for Infant Care Center with Environmental Fusion", in APSIPA ASC 2020, 2020, pp. 314-318.
- [91] Shun-Chang Zhong, Yun-Shao Lin, Chun-Min Chang, Yi-Ching Liu, and **Chi-Chun Lee***, "Predicting Group Performances Using a Personality Composite-Network Architecture During Collaborative Task", in INTERSPEECH2019, 2019, pp. 1676-1680. doi: 10.21437/Interspeech.2019-2087.
- [92] Sung-Lin Yeh, Yun-Shao Lin, and **Chi-Chun Lee***, "An Interaction-aware Attention Network for Speech Emotion Recognition in Spoken Dialogs", in IEEE ICASSP 2019, 2019, pp. 6685-6689. doi: 10.1109/icassp.2019.8683293.
- [93] Sung-Lin Yeh, Gao-Yi Chao, Bo-Hao Su, Yu-Lin Huang, Meng-Han Lin, Yin-Chun Tsai, Yu-Wen Tai, Zheng-Chi Lu, Chieh-Yu Chen, Tsung-Ming Tai, Chiu-Wang Tseng, Cheng-Kuang Lee, and **Chi-Chun Lee***, "Using Attention Networks and Adversarial Augmentation for Styrian Dialect Continuous Sleepiness and Baby Sound Recognition", in INTERSPEECH 2019, 2019, pp. 2398-2402. doi: 10.21437/Interspeech.2019-2110.
- [94] Hao-Chun Yang and **Chi-Chun Lee***, "Annotation Matters: A Comprehensive Study on Recognizing Intended, Self-reported, and Observed Emotion Labels using Physiology", in AAAC ACII 2019, 2019, pp. 1-7. doi: 10.1109/acii.2019.8925516.
- [95] Hao-Chun Yang and **Chi-Chun Lee***, "An Attribute-invariant Variational Learning for Emotion Recognition Using Physiology", in IEEE ICASSP 2019, 2019, pp. 1184-1188. doi: 10.1109/icassp.2019.8683290.
- [96] Fu-Sheng Tsai, Yi-Ming Weng, Chip-Jin Ng, and **Chi-Chun Lee***, "Pain versus Affect? An Investigation in the Relationship between Observed Emotional States and Self-Reported Pain", in APSIPA ASC 2019, 2019, pp. 508-512. doi: 10.1109/apsipaasc47483.2019.9023134.
- [97] Chih-Chuan Lu, Jeng-Lin Li, Yu-Fen Wang, Bor-Sheng Ko, Jih-Luh Tang, and **Chi-Chun Lee***, "A BLSTM with Attention Network for Predicting Acute Myeloid Leukemia Patient's Prognosis using Comprehensive Clinical Parameters", in IEEE EMBC 2019, 2019, pp. 2455-2458. doi: 10.1109/embc.2019.8856524.
- [98] Jeng-Lin Li, Yu-Fen Wang, Bor-Sheng Ko, Chi-Cheng Li, Jih-Luh Tang, and **Chi-Chun Lee***, "Learning a Cytometric Deep Phenotype Embedding for Automatic Hematological Malignancies Classification", in IEEE EMBC 2019, 2019, pp. 1733-1736. doi: 10.1109/embc.2019.8856728.
- [99] Jeng-Lin Li and **Chi-Chun Lee***, "Attention Learning with Retrievable Acoustic Embedding of Personality for Emotion Recognition", in AAAC ACII 2019, 2019, pp. 171-177. doi: 10.1109/acii.2019.8925536.
- [100] Jeng-Lin Li and **Chi-Chun Lee***, "Attentive to Individual: A Multimodal Emotion Recognition Network with Personalized Attention Profile", in INTERSPEECH 2019, 2019, pp. 211-215. doi: 10.21437/Interspeech.2019-2044.
- [101] Ming-Ya Ko, Jeng-Lin Li, and **Chi-Chun Lee***, "Learning Minimal Intra-Genre Multimodal Embedding from Trailer Content and Reactor Expressions for Box Office Prediction", in IEEE ICME 2019, 2019, pp. 1804-1809. doi: 10.1109/icme.2019.00310.
- [102] Chen-Ying Hung, Ching-Heng Lin, Chi-Sen Chang, Jeng-Lin Li, and **Chi-Chun Lee***, "Predicting Gastrointestinal Bleeding Events from Multimodal In-Hospital Electronic Health Records Using Deep Fusion Networks", in IEEE EMBC 2019, 2019, pp. 2447-2450. doi: 10.1109/embc.2019.8857244.
- [103] Tzu-Yun Huang, Jeng-Lin Li, Chun-Min Chang, and **Chi-Chun Lee***, "A Dual-Complementary Acoustic Embedding Network Learned from Raw Waveform for Speech Emotion Recognition", in AAAC ACII 2019, 2019, pp. 83-88. doi: 10.1109/acii.2019.8925496.
- [104] Chih-Hsiang Huang, Huang-Cheng Chou, Yi-Tong Wu, **Chi-Chun Lee**, and Yi-Wen Liu, "Acoustic Indicators of Deception in Mandarin Daily Conversations Recorded from an Interactive Game", in INTERSPEECH 2019, 2019, pp. 1731-1735. doi: 10.21437/Interspeech.2019-2216.
- [105] Wan-Ting Hsieh, Hao-Chun Yang, Fu-Sheng Tsai, Chon-Wen Shyi, and **Chi-Chun Lee***, "An Event-contrastive Connectome Network for Automatic Assessment of Individual Face Processing and Memory Ability", in IEEE ICASSP

- 2019, 2019, pp. 1358-1362. doi: 10.1109/icassp.2019.8682521.
- [106] Hui-Ting Hong, Jeng-Lin Li, Yi-Ming Weng, Chip-Jin Ng, and **Chi-Chun Lee***, "Investigating the Variability of Voice Quality and Pain Levels as a Function of Multiple Clinical Parameters", in INTERSPEECH 2019, 2019, pp. 3058-3062. doi: 10.21437/Interspeech.2019-2247.
- [107] Hui-Ting Hong, Jeng-Lin Li, Chun-Min Chang, and **Chi-Chun Lee***, "Improving Automatic Pain Level Recognition using Pain Site as an Auxiliary Task", in ACIIW 2019, 2019, pp. 284-289. doi: 10.1109/aciw.2019.8925185.
- [108] Huang-Cheng Chou, Yi-Wen Liu, and **Chi-Chun Lee***, "Joint learning of conversational temporal dynamics and acoustic features for speech deception detection in dialog games", in APSIPA ASC 2019, 2019, pp. 1044-1050. doi: 10.1109/apsipaasc47483.2019.9023050.
- [109] Huang-Cheng Chou and **Chi-Chun Lee***, "Every Rating Matters: Joint Learning of Subjective Labels and Individual Annotators for Speech Emotion Classification", in IEEE ICASSP 2019, 2019, pp. 5886-5890. doi: 10.1109/icassp.2019.8682170.
- [110] Huan-Yu Chen, Yun-Shao Lin, and **Chi-Chun Lee***, "Through the Eyes of Viewers: A Comment-Enhanced Media Content Representation for TED Talks Impression Recognition", in APSIPA ASC 2019, 2019, pp. 414-418. doi: 10.1109/apsipaasc47483.2019.9023066.
- [111] Gao-Yi Chao, Yun-Shao Lin, Chun-Min Chang, and **Chi-Chun Lee***, "Enforcing Semantic Consistency for Cross Corpus Valence Regression from Speech Using Adversarial Discrepancy Learning", in INTERSPEECH 2019, 2019, pp. 1681-1685. doi: 10.21437/Interspeech.2019-2037.
- [112] Wei-Hao Chang, Jeng-Lin Li, and **Chi-Chun Lee***, "Learning Semantic-preserving Space Using User Profile and Multimodal Media Content from Political Social Network", in IEEE ICASSP 2019, 2019, doi: 10.1109/icassp.2019.8682596.
- [113] Chun-Min Chang and **Chi-Chun Lee***, "Adversarially-enriched Acoustic Code Vector Learned from Out-of-context Affective Corpus for Robust Emotion Recognition", in IEEE ICASSP 2019, 2019, pp. 7395-7399. doi: 10.1109/icassp.2019.8683059.
- [114] Chun-Min Chang, Yu-Lin Huang, Jui-Cheng Chen, and **Chi-Chun Lee***, "Improving Automatic Tremor and Movement Motor Disorder Severity Assessment for Parkinson's Disease with Deep Joint Training", in IEEE EMBC 2019, 2019, pp. 3408-3411. doi: 10.1109/embc.2019.8857472.
- [115] Hao-Chun Yang, Fu-Sheng Tsai, Yi-Ming Weng, Chip-Jin Ng, and **Chi-Chun Lee***, "A Triplet-Loss Embedded Deep Regressor Network for Estimating Blood Pressure Changes Using Prosodic Features", in IEEE ICASSP 2018, 2018, pp. 6019-6023. doi: 10.1109/icassp.2018.8461933.
- [116] Fu-Sheng Tsai, Hao-Chun Yang, Wei-Wen Chang, and **Chi-Chun Lee***, "Automatic Assessment of Individual Culture Attribute of Power Distance Using a Social Context-Enhanced Prosodic Network Representation", in INTERSPEECH 2018, 2018, pp. 436-440. doi: 10.21437/Interspeech.2018-1523.
- [117] Bo-Hao Su, Sung-Lin Yeh, Ming-Ya Ko, Huan-Yu Chen, Shun-Chang Zhong, Jeng-Lin Li, and **Chi-Chun Lee***, "Self-Assessed Affect Recognition Using Fusion of Attentional BLSTM and Static Acoustic Features", in INTERSPEECH 2018, 2018, pp. 536-540. doi: 10.21437/Interspeech.2018-2261.
- [118] Chih-Chuan Lu, Jeng-Lin Li, and **Chi-Chun Lee***, "Learning an Arousal-Valence Speech Front-End Network using Media Data In-the-Wild for Emotion Recognition", in ACM AVEC 2018, 2018, pp. 99-105. doi: 10.1145/3266302.3266306.
- [119] Yu-Shuo Liu, Chin-Po Chen, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "Learning Lexical Coherence Representation Using LSTM Forget Gate for Children with Autism Spectrum Disorder During Story-Telling", in IEEE ICASSP 2018, 2018, pp. 6029-6033. doi: 10.1109/icassp.2018.8461560.
- [120] Yun-Shao Lin and **Chi-Chun Lee***, "Using Interlocutor-Modulated Attention BLSTM to Predict Personality Traits in Small Group Interaction", in ACM ICMI 2018, 2018, pp. 163-169. doi.org/10.1145/3242969.3243001.
- [121] Yun-Shao Lin, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "An Interlocutor-Modulated Attentional LSTM for Differentiating between Subgroups of Autism Spectrum Disorder", in INTERSPEECH 2018, 2018, pp. 2329-2333. doi: 10.21437/Interspeech.2018-1288.
- [122] Jeng-Lin Li, Yi-Ming Weng, Chip-Jin Ng, and **Chi-Chun Lee***, "Learning Conditional Acoustic Latent Representation with Gender and Age Attributes for Automatic Pain Level Recognition", in INTERSPEECH 2018, 2018, pp. 3438-3442. doi: 10.21437/Interspeech.2018-1298.
- [123] Jeng-Lin Li and **Chi-Chun Lee***, "Encoding Individual Acoustic Features Using Dyad-Augmented Deep Variational Representations for Dialog-level Emotion Recognition", in INTERSPEECH 2018, 2018, pp. 3102-3106. doi: 10.21437/Interspeech.2018-1455.
- [124] Yi-Ying Kao, Hsiang-Ping Hsu, Chien-Feng Liao, Yu Tsao, Hao-Chun Yang, Jeng-Lin Li, **Chi-Chun Lee**, Hung-Shin Lee, and

- Hsin-Min Wang, "Automatic Detection of Speech Under Cold Using Discriminative Autoencoders and Strength Modeling with Multiple Sub-Dictionary Generation", in IEEE IWAENC 2018, 2018, pp. 416-420. doi: 10.1109/iwaenc.2018.8521319.
- [125] Chen-Ying Hung, Ching-Heng Lin, and **Chi-Chun Lee***, "Improving Young Stroke Prediction by Learning with ActiveData Augmenter in a Large-Scale Electronic Medical Claims Database", in IEEE EMBC 2018, 2018, pp. 5362-5365. doi: 10.1109/embc.2018.8513479.
- [126] Wan-Ting Hsieh, Hao-Chun Yang, Ya-Tse Wu, Fu-Sheng Tsai, Li-Wei Kuo, and **Chi-Chun Lee***, "Integrating Perceivers Neural-Perceptual Responses Using a Deep Voting Fusion Network for Automatic Vocal Emotion Decoding", in IEEE ICASSP 2018, 2018, pp. 1015-1019. doi: 10.1109/icassp.2018.8462352.
- [127] Gao-Yi Chao, Chun-Min Chang, Jeng-Lin Li, Ya-Tse Wu, and **Chi-Chun Lee***, "Generating fMRI-Enriched Acoustic Vectors using a Cross-Modality Adversarial Network for Emotion Recognition", in ACM ICMI 2018, 2018, pp. 55-62. doi: 10.1145/3242969.3242992.
- [128] Wei-Hao Chang, Jeng-Lin Li, Yun-Shao Lin, and **Chi-Chun Lee***, "A Genre-Affect Relationship Network with Task-Specific Uncertainty Weighting for Recognizing Induced Emotion in Music", in IEEE ICME 2018, 2018, pp. 1-6. doi: 10.1109/icme.2018.8486570.
- [129] Ya-Tse Wu, Hsuan-Yu Chen, Yu-Hsien Liao, Li-Wei Kuo, and **Chi-Chun Lee***, "Modeling Perceivers Neural-Responses Using Lobe-Dependent Convolutional Neural Network to Improve Speech Emotion Recognition", in INTERSPEECH 2017, 2017, pp. 3261-3265. doi: 10.21437/Interspeech.2017-562.
- [130] Fu-Sheng Tsai, Yi-Ming Weng, Chip-Jin Ng, and **Chi-Chun Lee***, "Embedding stacked bottleneck vocal features in a LSTM architecture for automatic pain level classification during emergency triage", in AAC ACII 2017, 2017, pp. 313-318. doi: 10.1109/acii.2017.8273618.
- [131] Yun-Shao Lin and **Chi-Chun Lee***, "Deriving Dyad-Level Interaction Representation Using Interlocutors Structural and Expressive Multimodal Behavior Features", in INTERSPEECH 2017, 2017, pp. 2366-2370. doi: 10.21437/Interspeech.2017-569.
- [132] Chen-Ying Hung, Wei-Chen Chen, Po-Tsun Lai, Ching-Heng Lin, and **Chi-Chun Lee***, "Comparing deep neural network and other machine learning algorithms for stroke prediction in a large-scale population-based electronic medical claims database", in IEEE EMBC 2017, 2017, pp. 3110-3113. doi: 10.1109/embc.2017.8037515.
- [133] Huang-Cheng Chou, Wei-Cheng Lin, Lien-Chiang Chang, Chyi-Chang Li, Hsi-Pin Ma, and **Chi-Chun Lee***, "NNIME: The NTHU-NTUA Chinese interactive multimodal emotion corpus", in AAC ACII 2017, 2017, pp. 292-298. doi: 10.1109/acii.2017.8273615.
- [134] Chin-Po Chen, Xian-Hong Tseng, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "Computing Multimodal Dyadic Behaviors During Spontaneous Diagnosis Interviews Toward Automatic Categorization of Autism Spectrum Disorder", in INTERSPEECH 2017, 2017, pp. 2361-2365. doi: 10.21437/Interspeech.2017-563.
- [135] Chun-Min Chang, Bo-Hao Su, Shih-Chen Lin, Jeng-Lin Li, and **Chi-Chun Lee***, "A bootstrapped multi-view weighted Kernel fusion framework for cross-corpus integration of multimodal emotion recognition", in AAC ACII 2017, 2017, pp. 377-382. doi: 10.1109/acii.2017.8273627.
- [136] Chun-Min Chang and **Chi-Chun Lee***, "Fusion of multiple emotion perspectives: Improving affect recognition through integrating cross-lingual emotion information", in IEEE ICASSP 2017, 2017, pp. 5820-5824. doi: 10.1109/icassp.2017.7953272.
- [137] Fu-Sheng Tsai, Ya-Ling Hsu, Wei-Chen Chen, Yi-Ming Weng, Chip-Jin Ng, and **Chi-Chun Lee***, "Toward Development and Evaluation of Pain Level-Rating Scale for Emergency Triage based on Vocal Characteristics and Facial Expressions", in INTERSPEECH 2016, 2016, pp. 92-96. doi: 10.21437/Interspeech.2016-408.
- [138] Wei-Cheng Lin and **Chi-Chun Lee***, "A thin-slice perception of emotion? An information theoretic-based framework to identify locally emotion-rich behavior segments for global affect recognition", in IEEE ICASSP 2016, 2016, pp. 5790-5794. doi: 10.1109/icassp.2016.7472787.
- [139] Hung-Shin Lee, Yu Tsao, **Chi-Chun Lee**, Hsin-Min Wang, Wei-Cheng Lin, Wei-Chen Chen, Shan-Wen Hsiao, and Shyh-Kang Jeng, "Minimization of Regression and Ranking Losses with Shallow Neural Networks on Automatic Sincerity Evaluation", in INTERSPEECH 2016, 2016, pp. 2031-2035. doi: 10.21437/Interspeech.2016-756.
- [140] Wen-Yu Huang, Shan-Wen Hsiao, Hung-Ching Sun, Ming-Chuan Hsieh, Ming-Hsueh Tsai, and **Chi-Chun Lee***, "Enhancement of Automatic Oral Presentation Assessment System Using Latent N-Grams Word Representation and Part-of-Speech Information", in INTERSPEECH 2016, 2016, pp. 1432-1436. doi: 10.21437/Interspeech.2016-400.
- [141] Hsuan-Yu Chen, Yu-Hsien Liao, Heng-Tai Jan, Li-Wei Kuo, and **Chi-Chun Lee***, "A Gaussian mixture regression approach toward modeling the affective dynamics between acoustically-derived vocal arousal score (VC-AS) and internal brain

- fMRI bold signal response", in IEEE ICASSP 2016, 2016, pp. 5775-5779. doi: 10.1109/icassp.2016.7472784.
- [142] **Chi-Chun Lee***, Daniel Bone, and Shrikanth Narayanan, "An analysis of the relationship between signal-derived vocal arousal score and human emotion production and perception", in INTERSPEECH 2015, 2015, pp. 1304-1308.
- [143] Shan-Wen Hsiao, Hung-Ching Sun, Ming-Chuan Hsieh, Ming-Hsueh Tsai, Hsin-Chih Lin, and **Chi-Chun Lee***, "A multimodal approach for automatic assessment of school principals' oral presentation during pre-service training program", in INTERSPEECH 2015, 2015, pp. 2529-2533.
- [144] Wei-Chen Chen, Po-Tsun Lai, Yu Tsao, and **Chi-Chun Lee***, "Multimodal arousal rating using unsupervised fusion technique", in IEEE ICASSP 2015, 2015, pp. 5296-5300. doi: 10.1109/icassp.2015.7178982.
- [145] How Jing, Ting-Yao Hu, Hung-Shin Lee, Wei-Chen Chen, **Chi-Chun Lee**, Yu Tsao, and Hsin-Min Wang, "Ensemble of machine learning algorithms for cognitive and physical speaker load detection", in INTERSPEECH 2014, 2014, pp. 447-451.
- [146] Daniel Bone, **Chi-Chun Lee**, Alexandros Potamianos, and Shrikanth Narayanan, "An investigation of vocal arousal dynamics in child-psychologist interactions using synchrony measures and a conversation-based model", in INTERSPEECH 2014, 2014, pp. 218-222.
- [147] Bo Xiao, Panayiotis G. Georgiou, **Chi-Chun Lee**, Brian Baucom, and Shrikanth S. Narayanan, "Head motionsynchrony and its correlation to affectivity in dyadic interactions", in IEEE ICME 2013, 2013, pp. 1-6. doi: 10.1109/icme.2013.6607480.
- [148] Rahul Gupta, **Chi-Chun Lee**, Sungbok Lee, and Shrikanth Narayanan, "Assessment of a child's engagement using [149]sequence model based features", in Workshop on Affective Social Speech Signals, 2013.
- [150] Theodora Chaspari, Daniel Bone, James Gibson, **Chi-Chun Lee**, and Shrikanth Narayanan, "Using physiology and language cues for modeling verbal response latencies of children with ASD", in IEEE ICASSP 2013, 2013 2013, pp.3702-3706. doi: 10.1109/icassp.2013.6638349.
- [151] Daniel Bone, **Chi-Chun Lee**, Vikram Ramanarayanan, Shrikanth Narayanan, Renske S Hoedemaker, and Peter C Gordon, "Analyzing eye-voice coordination in rapid automatized naming", in INTERSPEECH 2013, 2013, pp. 2425-2429.
- [152] Daniel Bone, **Chi-Chun Lee**, Theodora Chaspari, Matthew P. P. Black, Marian E Williams, Sungbok Lee, Pat Levitt, and Shrikanth Narayanan, "Acoustic-prosodic, turn-taking, and language cues in child-psychologist interactions forvarying social demand", in INTERSPEECH 2013, 2013, pp. 2400-2404.
- [153] **Chi-Chun Lee***, Athanasios Katsamanis, Panayiotis G. Georgiou, and Shrikanth Narayanan, "Based on isolated saliency or causal integration? toward a better understanding of human annotation process using multiple instancelearning and sequential probability ratio test", in INTERSPEECH 2012, 2012, pp. 619-622.
- [154] **Chi-Chun Lee***, Athanasios Katsamanis, Brian R. Baucom, Panayiotis G. Georgiou, and Shrikanth Narayanan, "Using measures of vocal entrainment to inform outcome-related behaviors in marital conflicts", in APSIPA ASC 2012, 2012, pp. 1-5.
- [155] Rahul Gupta, **Chi-Chun Lee**, and Shrikanth Narayanan, "Classification of emotional content of sighs in dyadic human interactions", in IEEE ICASSP 2012, 2012, pp. 2265-2268. doi: 10.1109/icassp.2012.6288365.
- [156] Rahul Gupta, **Chi-Chun Lee**, Daniel Bone, Agata Rozga, Sungbok Lee, and Shrikanth Narayanan, "Acoustical analysisof engagement behavior in children", in WOCCI 2012, 2012, pp. 25-31.
- [157] Theodora Chaspari, **Chi-Chun Lee**, and Shrikanth Narayanan, "Interplay between verbal response latency and physiology of children with autism during ECA interactions", in INTERSPEECH 2012, 2012, pp. 1319-1322.
- [158] Daniel Bone, **Chi-Chun Lee**, and Shrikanth Narayanan, "A robust unsupervised arousal rating framework usingprosody with cross-corpora evaluation", in INTERSPEECH 2012, 2012, pp. 1175-1178.
- [159] Daniel Bone, Matthew P. P. Black, **Chi-Chun Lee**, Marian E Williams, Pat Levitt, Sungbok Lee, and Shrikanth Narayanan, "Spontaneous-speech acoustic-prosodic features of children with autism and the interacting psychologist", in INTERSPEECH 2012, 2012, pp. 1043-1046.
- [160] Emily Mower, **Chi-Chun Lee**, James Gibson, Theodora Chaspari, Marian E Williams, and Shrikanth Narayanan, "Analyzing the nature of ECA interactions in children with autism", in INTERSPEECH 2011, 2011, pp. 2089-2992.
- [161] **Chi-Chun Lee***, Athanasios Katsamanis, Matthew P. P. Black, Brian R. Baucom, Panayiotis G. Georgiou, and Shrikanth Narayanan, "An analysis of PCA-based vocal entrainment measures in married couples' affective spokeninteractions", in INTERSPEECH 2011, 2011, pp. 3101-3104.
- [162] **Chi-Chun Lee***, Athanasios Katsamanis, Matthew P. P. Black, Brian R. Baucom, Panayiotis G. Georgiou, and Shrikanth Narayanan, "Affective state recognition in married couples' interactions using PCA-based vocal entrainment measures with multiple instance learning", in AAA CACII 2011, 2011, pp. 31-41. doi: 10.1007/978-3-642-24571-8_4.
- [163] Angeliki Metallinou, **Chi-Chun Lee**, Carlos Busso, Sharon Carnicke, and Shrikanth Narayanan, "The USC CreativeIT

- database: A multimodal database of theatrical improvisation", in Workshop on Multimodal Corpora: Advances in Capturing, Coding and Analyzing Multimodality (MMC 2010), 2010, p. 55.
- [164] **Chi-Chun Lee*** and Shrikanth Narayanan, "Predicting interruptions in dyadic spoken interactions", in IEEE ICASSP2010, 2010, pp. 5250-5253. doi: 10.1109/icassp.2010.5494991.
- [165] **Chi-Chun Lee***, Matthew P. Black, Athanasios Katsamanis, Adam C. Lammert, Brian R. Baucom, Andrew Christensen, Panayiotis G. Georgiou, and Shrikanth Narayanan, "Quantification of prosodic entrainment in affectivespontaneous spoken interactions of married couples", in INTERSPEECH 2010, 2010, pp. 793-796.
- [166] Matthew P. Black, Athanasios Katsamanis, **Chi-Chun Lee**, Adam C. Lammert, Brian R. Baucom, Andrew Christensen, Panayiotis G. Georgiou, and Shrikanth Narayanan, "Automatic classification of married couples' behavior using audio features", in INTERSPEECH 2010, 2010, pp. 2030-2033.
- [167] Emily Mower, Angeliki Metallinou, **Chi-Chun Lee**, Abe Kazemzadeh, Carlos Busso, Sungbok Lee, and Shrikanth Narayanan, "Interpreting ambiguous emotional expressions", in AAC ACII 2009, 2009 2009: IEEE, pp. 1-8. doi: 10.1109/acii.2009.5349500.
- [168] **Chi-Chun Lee***, Emily Mower, Carlos Busso, Sungbok Lee, and Shrikanth Narayanan, "Emotion recognition using a hierarchical binary decision tree approach", in INTERSPEECH 2009, 2009, pp. 320-323.
- [169] **Chi-Chun Lee***, Carlos Busso, Sungbok Lee, and Shrikanth Narayanan, "Modeling mutual influence of interlocutor emotion states in dyadic spoken interactions", in INTERSPEECH 2009, 2009, pp. 1983-1986.
- [170] **Chi-Chun Lee***, Sungbok Lee, and Shrikanth Narayanan, "An analysis of multimodal cues of interruption in dyadic spoken interactions", in INTERSPEECH 2008, 2008, pp. 1678-1681.

Abstract

- [1] Hsin-Hao Chiu, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "Learning A Privacy-Aware Embedding Toward RobustASR for Children with Autism Spectrum Disorder", in AHFE 2021, 2021.
- [2] Gary CW Shyi, Wan-Ting Hsieh, Felix F-S Tsai, **Chi-Chun Lee**, Shih-Tseng Tina Huang, Joshua OS Goh, Ya-Yun Chen, Chi-Chuan Chen, and Yu Song Haw, "Neural Encoding and Decoding with Convolutional Autoencoder for Predicting Emotional Judgment of Facial Expressions", in Journal of Vision, 2019. doi: 10.1167/19.10.260c.
- [3] Bor-Sheng Ko, Yu-Fen Wang, Chih-Chuan Lu, Jeng-Lin Li, **Chi-Chun Lee**, Jih-Luh Tang, and Hwei-Fang Tien, "Relapse and Mortality Prediction of Acute Myeloid Leukemia Patients Using Deep Bidirectional Long Short-Term Memory-Deep Neural Network Architecture", in Blood, Nov 29, 2018. doi: 10.1182/blood-2018-99-115778.
- [4] Yu-Fen Wang, Bor-Sheng Ko, Chi-Cheng Li, Jeng-Lin Li, Pei-Fang Weng, Huai-Hsuan Huang, Hsin-An Hou, Hwei-Fang Tien, **Chi-Chun Lee**, and Jih-Luh Tang, "An Artificial Intelligence Approach for B Lymphoblastic Leukemia Minimal Residual Disease Detection and Clinical Prognosis Prediction Using Flow Cytometry Data", in Blood, 2017. doi: 10.1182/blood.V130.Suppl_1.3980.3980.
- [5] Shih-Yen Lin, Ya-Tse Wu, Chen-Pei Lin, Li-Wei Kuo, and **Chi-Chun Lee***, "Investigating Vocal Emotion by Graph Theoretical Analysis and Lobe-dependent Convolutional Neural Network on Functional Mri", in International Conference on Cognitive Science, 2017.
- [6] Chi-Cheng Li, Bor-Sheng Ko, Yu-Fen Wang, Jeng-Lin Li, Pei-Fang Weng, Hsin-An Hou, Xiu-Wen Liao, Chien-Ting Lin, Jia-Hou Liu, Hsun-I Sun, Hwei-Fang Tien, **Chi-Chun Lee**, and Jih-Luh Tang, "An Artificial Intelligence Approach for Predicting Allogeneic Hematopoietic Stem Cell Transplantation Outcome by Detecting Pre-Transplant Minimal Residual Disease in Acute Myeloid Leukemia Using Flow Cytometry Data", in Blood, Dec 7, 2017. doi: 10.1182/blood.v130.suppl_1.2042.2042.
- [7] Bor-Sheng Ko, Chi-Cheng Li, Yu-Fen Wang, Jeng-Lin Li, Hsin-An Hou, Pei-Fang Weng, Hwei-Fang Tien, **Chi-Chun Lee**, and Jih-Luh Tang, "An Artificial Intelligence Approach in Classifying Acute Myeloid Leukemia and Myelodysplastic Syndrome for Minimal Residual Disease Detection with Post Induction Prognosis Analysis Using Flow Cytometry", in Blood, Dec 7, 2017.
- [8] Hengtai Jan, Shih-Yen Lin, Shiuan-Yeu Chen, Yu-Hisen Liao, Yi-Ping Chao, **Chi-Chun Lee**, and Li-Wei Kuo, "Voxel- based Graph-theoretical Analysis (VGA) of Brain Networks Modulated by External Vocal Emotion", in Human BrainMapping, 2015.
- [9] **Chi-Chun Lee***, Brian Baucom, Athanasios Katsamanis, Panayiotis G. Georgiou, and Shrikanth Narayanan, "Modeling Vocal Interdependence during Marital Interaction: A Vector-based Approach", in the annual meeting of the Association for Behavioral and Cognitive Therapies, National Harbor, MD, 2012.
- [10] Theodora Chaspari, **Chi-Chun Lee**, Matthew P. P. Black, and Shrikanth Narayanan, "Analyzing the Physiological Synchrony of Children with Autism and their Parents with Signal Processing Techniques", in IMFAR 2012 2012.

- [11] Brain R. Baucom, Esti Iturralde, **Chi-Chun Lee**, Panayiotis G. Georgiou, Shrikanth Narayanan, and Gayla Margolin, "Multisystemic family aggression and dynamic emotional processes during triadic family interaction", in Annual meeting of the Association for Behavioral and Cognitive Therapies, National Harbor, MD, 2012.
- [12] **Chi-Chun Lee***, Brain R. Baucom, Athanasios Katsamanis, Matthew P. P. Black, Panayiotis G. Georgiou, and
- [13] Shrikanth Narayanan, "Analyzing vocal entrainment in married couples' interactions: a signal-derived PCA-based quantification scheme and affect recognition using factorial hidden markov models", in Annual Meeting of the Association for Behavioral and Cognitive Therapies, 2011.

Selected Funded Projects

國科會 *National Science and Technology Council (NSTC)*

Project Title	Role	Duration	Agency
智慧醫療產學聯盟 - 呼吸音AI判讀與遠距照護應用 AI Interpretation of Respiratory Sounds and Telemedicine Application	PI	2024/12/01~2025/11/30	NSTC
適用於智慧服務的可信賴 AI 先進技術研究 II (2/2) Advanced Technologies for Designing Trustable AI Services II (2/2)	Sub- project PI	2024/11/01~2025/10/31	NSTC
適用於智慧服務的可信賴 AI 先進技術研究 II Advanced Technologies for Designing Trustable AI Services II	Sub- project PI	2023/11/01~2024/10/31	NSTC
日常生活中壓力偵測技術：強健式縱向模型與隱私保護演算法 Toward Real-World Stress Detection: Noise-Robust, Longitudinal, and Privacy-Aware	PI	2023/08/01 ~ 2026/07/31	NSTC
適用於智慧服務的可信賴 AI 先進技術研究 Advanced Technologies for Designing Trustable AI Services	Sub- project PI	2021/11/01~2023/10/31	NSTC
透過強健性可泛化且具信賴的情感訊號模型來實現普適情緒辨識科技 Toward Realizing Into-Life Emotion Ai through Robust, Scalable, and Trustworthy Affective Signal Modeling	PI	2021/08/01~2024/07/31	NSTC
群體人工智慧--群體人工智慧之用戶特徵學習、情緒運算及行為塑型研究 Crowd-AI Users Representation Learning, Affect Computing, and Behavior Shaping	PI	2018/01/01~2021/12/31	NSTC
群體人工智慧--群體人工智慧之合作式定位,地理知識與終端輪廓學習,及感知互動技術之研究 Crowd AI - Cooperative Positioning, Geographical Knowledge and Edge Profile Learning, and Cognitive Interaction	CO-PI	2018/01/01~2021/12/31	NSTC
群體人工智慧--群體人工智慧之網宇群眾分包機器學習 Crowd AI - Crowdsourced Machine Learning from	CO-PI	2018/01/01~2021/12/31	NSTC

Cyber-Physical Crowds			
群體人工智慧--群體人工智慧之分散式學習、資料融合及隱私性研究 Crowd AI - Distributed Learning, Aggregation, and Privacy	CO-PI	2018/01/01~2021/12/31	NSTC
價創計畫：智能化血液病診斷與預後預測 TrustU program: Intelligent hematological diseases diagnosis and prognostic prediction	CO-PI	2019/04/01~2020/03/31	NSTC
人工智慧 DJ 開源專案：全自動個人化 DJ Open DJ Project: AI for Automatic and Personalized DJing	CO-PI	2018/08/01~2021/07/31	NSTC
利用人工智慧針對急性白血病或骨髓化生不良症候群病患的臨床資料建立演算法供客觀的疾病進展與預後評估的研究 A Study of the unbiased disease status and prognosis assessment of Acute Leukemia or Myelodysplastic Syndrome patients by machine learning of their clinical data	CO-PI	2018/08/01~2019/07/31	NSTC
以神經計算取向探討情緒表情多模態之處理與整合：追溯文化特殊性--以神經計算取向探討情緒表情多模態之處理與整合：追溯文化特殊性 A Neural-Computational Approach to Investigate Multi-modal Processing and Integration of Emotional Expressions: In Search of Cultural Specificity	CO-PI	2018/01/01~2020/04/30	NSTC
強健式多模態口語演講評分系統 Robust Automatic Oral Presentation Assessment	CO-PI	2017/08/01~2019/07/31	NSTC
開發基於多模態人類行為訊號應用於急診檢傷之客觀疼痛指數 Development of Automated and Objective Pain Level Assessment by Modeling Multimodal Human Behaviors during Emergency Triage	PI	2017/08/01~2018/03/31	NSTC
基於巨量網宇實體數據分析的人本學習、推薦和行為塑型--基於巨量網宇實體數據分析的人本學習、推薦和行為塑型 Large-Scale Cyber-Physical Data Analysis for Human-Centric Learning, Recommendation, and Behavior Shaping	CO-PI	2017/06/01~2018/03/16	NSTC
以功能性磁共振影像探索多重文化領域中認知適應之神經表徵 Exploring the Neural Representation Associated with Cognitive Adaptation in Multiple Cultural Domains using MRI	CO-PI	2017/01/01~2019/06/30	NSTC
依據自閉症診斷觀察量表開發多模態演算法以	PI	2016/08/01~2018/03/31	NSTC

量化類自閉症小孩的非典型社交行為 Development of Objective Computational Algorithms for Modeling Atypical Socio-Communicative Multimodal Behaviors during Autism Diagnostic Observation Schedule (ADOS) Interview Sessions			
以大腦磁振神經影像及語音情感計算解碼語音情緒表達之神經感知運作機制 Decoding Neuropceptual Mechanisms of Vocal Emotion Expressions using Brain MR Neuroimaging and Speech Affective Computing	CO-PI	2015/01/01~2016/12/31	NSTC
強健式多模態情感建模跨域應用系統 Robust Multimodal Emotion Modeling for Cross-domain Applications	PI	2014/08/01~2017/07/31	NSTC

Other Agencies (NPO)

大型運動與健康資料庫評估研究計畫 Research Project on the Evaluation of Large-Scale Sports and Health Databases	PI	2024/12/01~ 2025/11/30	國立中興大學
多模態多語言情感計算：資料庫與演算法 Multimodal Multilingual Affective Computing: Database and Algorithms	PI	2025/04/01~ 2028/03/31	東北大学 電気通信研究所 Research Institute of Electrical Communication Tohoku University
以深度學習建構重症病患心腎併發症之預測模組 Utilizing deep learning to build a predictive model for cardiorenal complications in critically ill patients	Sub- project PI	2025/01/01~2025/12/31	VGHUST
以深度學習建構重症病患呼吸重症之預測模組 Utilizing deep learning to build a predictive model for cardiorenal complications in critically ill patients	Sub- project PI	2024/01/01~2024/12/31	VGHUST
AI偵謊輔助系統再提升建置案 Upgraded AI system development of deception detection for agency against corruption	PI	2023/03/11 ~ 2023/12/15	AAC
以深度學習建構重症病患死亡與呼吸器脫離之預測模組	Sub- project PI	2023/01/01~2023/12/31	VGHUST
以深度學習建構敗血症病患預後預測模組 Developing a prognostic prediction module for sepsis patients with deep learning	Sub- project PI	2022/01/01~2022/12/31	VGHUST
AI 偵謊輔助系統委外建置案 AI system development of deception detection for agency against corruption	PI	2021/08/28~2023/01/31	AAC
110-111 年度以人工智慧建立兒童發展篩檢模組計	PI	2021/04/01~2022/03/30	Mackay Hospital

畫 110-111 Using AI-based method for pre-school children development screening and monitoring			
以深度學習建構呼吸器依賴病患呼吸器脫離與死亡預測模型 Developing deep learning model to predict ventilator detachment and death in patients with ventilator dependence	Sub- project PI	2021/01/01~2021/12/31	VGHUST
智慧型醫療決策輔助系統自編碼器之研究 Intelligent health decision system developing based on autoencoder	PI	2020/07/01~2020/12/31	VHCT
新聞影片畫面方法技術研究與技術概念驗證 Technology for news media analysis and validation	PI	2020/03/27~2020/11/15	III
嬰兒認知與氣質之規模化行為分析與智能應用 Toward large scale Infant cognition and temperament analysis and intelligent application	PI	2020/01/01~2021/12/31	Ministry of Education
以深度學習建構多模式過敏性疾病急性發作預測系統 A multimodal deep learning network for acute allergic disease acute attack prediction	Sub- project PI	2020/01/01~2020/12/31	VGHUST
臺灣本地創匯高經濟作物之篩果影像辨識競賽 - 以愛文芒果為例 Mango Image classification competition and course	PI	2019/10/01~2020/03/31	Ministry of Education
AI 技術應用實證輔導機制 Prototype validation grant: mango classification	PI	2019/09/20~2019/11/15	III
運用機器學習建構老年人常見疾病預測模型之研究 Using ML model for elderly disease prediction	PI	2019/06/01~2019/12/31	VHCT
以深度學習建構智慧多模式臨床治療成效預測系統 A Multimodal Intelligent System to Predict Clinical Treatment Effectiveness with Deep Learning	Sub- project PI	2019/01/01~2019/12/31	VGHUST
使用者節能行為分析技術 Users energy saving behavior analysis	PI	2018/08/01~2018/11/30	ITRI
運用機器學習建構心血管疾病預測模行之研究 Using ML for heart related disease prediction	PI	2018/08/01~2018/12/31	VHCT
以巨資架構深度學習演算法建立抗凝血劑/抗血小板凝集藥物對腸胃道出血之風險預測系統 Developing Hemorrhage Predictive Index of Anticoagulant and Antiplatelet Agent using Deep Learning Neural Network from Massive Electronic Health Records	Sub- project PI	2018/01/01~2018/12/31	VGHUST
以健保巨資架構深度學習類神經網路演算法之中風預測系統 Developing Stroke Predictive Index using Deep Learning Neural Network from Massive Electronic Health Records	Sub- project PI	2016/01/01~2016/12/31	VGHUST

急診檢傷病患表情分析與疼痛分數相關性研究計畫 Correlation of Facial Expression Analysis and Pain Scale at Triage	CO-PI	2015/09/01~2017/07/31	CGM Hospital
自動化口語評量系統建置之研究 A Study of Automatic Oral Evaluation Systems	CO-PI	2015/01/01~2016/12/31	NAER
電資工程巨資演算法發展 Big Data Analytics and Informatics Algorithm Development	Sub- project PI	2015/01/01~2015/12/31	VGHUST

Other Agencies (Companies)

低碼率傳輸研究	PI	2025/09/01~2026/08/31	訊崙
聲源與語音AI技術研究	PI	2025/09/01~2026/02/28	驊訊Cmedia
用於語音情緒理解的音訊大語言模型之國際化	PI	2025/06/01~2026/05/30	Google Inc
早期疾病風險預測技術開發計畫書D	PI	2025/06/01~2026/11/30	群健 cofit
語音辨識與質檢技術開發計畫書	PI	2025/03/01~2026/02/28	全球
呼吸音AI判讀與遠距照護應用	PI	2024/12/01~2025/11/30	廣達
iMGenie DataFlow & MLFlow 開發研究	PI	2024/05/01~2025/04/30	國泰
AI專案技術研究	PI	2023/09/01~2024/08/31	驊訊Cmedia
電訪語音辨識技術	PI	2023/05/01~2024/10/31	TGL
CT Image AI for RCC detection	PI	2022/09/29~2023/09/28	JNJ
Distributed Learning for Edge AI Applications	PI	2022/07/01~2024/06/30	Qualcomm
AI Voice-Transformation 技術研究	PI	2022/09/01~2023/08/31	Cmedia
語音辨識的再精進 Refinement of speech recognition	PI	2022/04/01~2023/03/31	E-Sun
Development of renal cancer prediction models by using artificial intelligence techniques and electronic health records	PI	2021/11/30~2022/11/29	JNJ
Federated Learning for Mobile Health	PI	2021/10/01~2022/10/31	Qualcomm
AI Voice-Conversion 技術研究	PI	2021/08/01~2022/07/31	Cmedia
健保醫療數據與 AI 研究 National health insurance data analysis and AI study	PI	2020/12/01~2023/11/30	Allianz
Human-Centered Healthcare Information Processing and Analytics	PI	2020/04/01~2023/03/31	AHEAD
AI de-Reverb Study	PI	2020/07/01~2021/06/30	Cmedia
情緒 AI 辨識技術研究 Emotion recognition technology study	PI	2020/06/01~2022/05/31	Fujida TW
Early Stage Lung Cancer Prediction	PI	2020/11/19~2021/11/18	JNJ
情緒激動程度與辨識開發 Affective state tracking and system developing	PI	2020/07/01~2020/11/30	Gamania
多人遊戲互動情境行為分析技術開發研究案 Behavior analysis and development for multi-party interaction	PI	2020/09/01~2020/11/30	Gamania
Machine Learning on Edge Computing Platforms	PI	2020/06/01~2022/05/31	Qualcomm

金融智慧技術 2 AI for Fin-tech II	PI	2020/04/01~2022/03/31	E-Sun
AI 篩果技術開發 AI for fruit selection	PI	2019/10/01~2020/09/30	Walker TW
金融智慧技術 1 AI for Fin-tech I	PI	2019/04/01~2020/03/31	E-Sun
嬰兒哭聲分析辨識系統建置開發 Infant crying detection and recognition	PI	2019/03/01~2021/02/27	生群
失智症早篩 App 開發 App development for early stage dementia patient screening	PI	2019/03/01~2019/08/31	Hannstar
Sentri Smart Home Monitoring System – Intelligent Module's Research and Development	PI	2014/09/01~2015/08/31	Kronosight Inc.
NZXT Cam: Intelligent DIY-Computer Hardware Recommendation System for Gaming	PI	2014/11/01~2015/10/30	NZXT Inc.

Professional Membership

IEEE Senior Member (2020)

Member

International Speech Communication Association (ISCA), Association for Computing Machinery (ACM), Asia-Pacific Signal and Information Processing Association (APSIPA), The Association for Computational Linguistics and Chinese Language Processing (ACLCLP)

Director

The Association for Computational Linguistics and Chinese Language Processing (ACLCLP)

Academic Services

Associate Editor in Chief

IEEE Transactions on Affective Computing (2025-)

Associate Editor

IEEE Transaction on Audio Speech and Language (2025-), IEEE Transactions on Affective Computing (2020-2024), IEEE Transaction on Multimedia (2019-2020), Journal of Computer Speech and Language (2021-), APSIPA Transactions on Signal and Information Processing (2022-2024)

Society Services

APSIPA Forum: The Future of Affective Computing (Host) Oct. 18th, 2021

IEEE Taipei Section: Information Officer (2021-2022)

IEEE ICASSP 2022: Short Course (Speech technology for health: from technical foundations to applications)

TPC Members (Technical Program Committee)

IEEE Speech and Language Technical Committee (2026–2028)

APSIPA Image, Video, Multimedia (2019–2021)

Machine Learning (2019-)

Journal Special Issue Editor

Journal of Computer Speech and Language (CSL): Special issue, Speech and Language Processing for Behavioral and Mental Health Applications (2017-2018)

Conference Organizer: International

IEEE Workshop on Spoken Language Technology (**SLT**): Panel and Invited Speaker Co-Chair (2026)
 ACII Workshop on Multilingual and Multimodal Affective Computing (**MMAC**): Organising team (2025)
 IEEE Workshop on Automatic Speech Recognition and Understanding (**ASRU**): General Chair (2023)
 Annual Conference of Affective Computing and Intelligent Interaction (**ACII**): Senior program committee (2017, 2019)
 ACM International Conference on Multimodal Interaction (**ICMI**): Publicity Chair, Area Chair (2018), Late breaking result chair (2023)
 IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**): Session chair (2019, 2020)
 The International Conference of the IEEE Engineering in Medicine and Biology Society (**EMBC**): Session chair (2018, 2019)
 Annual Conference of International Speech Communication (**Interspeech**): Area chair (2016, 2018, 2019), Session chair (2018-2021), Technical program committee (2019)
 International Symposium on Chinese Spoken Language Processing (**ISCSLP**): Sponsorship chair (2018), Special session co-chair (2021)

Conference Organizer: Domestic

Annual Conference on Computational Linguistics and Speech Processing (**ROCLING**) 2018 General Chair Annual Conference on Computational Linguistics and Speech Processing (**ROCLING**) 2017 Technical Chair Annual Conference on Computational Linguistics and Speech Processing (**ROCLING**) 2016 Local Chair
 Speech Processing Workshop (**SWS**) 2017 General Chair

Review Services

Journals/Conferences

IEEE TASL, IEEE TAFPE, IEEE SPM, CSL, Speech Comm, IEEE TBME, IEEE JSTSP, Elsevier Digital Signal Processing, Comm of the ACM, ACM TOMM, ICASSP, Interspeech, ICME, ACII, ICMI, EMBC, EUSIPCO, ICPR, ISCS, APSIPA ASC, IEEE Transaction on Information Forensic and Security, IEEE Wireless Communication Magazine, IEEE Journal on Emerging and Selected Topics, Transactions on Multimedia Computing Communications and Applications, Journal of Language Resource and Evaluation, Journal of the Chinese Institute of Engineers

Project Proposals

Evaluation Committee of Intelligent Computing, NSTC Engineering and Technology Office
 External Proposal Reviewer for The Innovation and Technology Commission (ITC), a funding agency for applied research of the Government of the Hong Kong Special Administrative Region
 Proposal Reviewer for the NWO, the Dutch Research Council
 Ministry of Science and Technology Proposal Review
 Ministry of Justice Taiwan Proposal Review
 Ministry of Education AI-Cup Proposal Review
 Ministry of Economic Affairs Proposal Review
 European Research Council (ERC) Consolidator Grant 2019 – External Reviewer
 European Science Foundation (ESF): Research Foundation Flanders (FWO) Post-doctoral projects – Evaluation

Teaching Experiences

National Tsing Hua University, Taiwan

EE 6640: Speech Signal Processing
EE 3660: Probability
EE 3662: Digital Signal Processing Laboratory
IMS 5031: Artificial Intelligence Innovation and Entrepreneurship

University of Southern California: Teaching Assistant

EE 619: Advanced Topics in Automatic Speech Recognition
EE 519: Speech Recognition and Processing for Multimedia

Invited Talks

Lecture & Keynote Talks

Organization	Topic	Place	Date
CIFAR Taiwan Canada Frontiers of Science Symposium (TCFoS)	Sovereign AI: Perspectives from Speech AI Researcher	Calgary, Canada	2025/10/27
APSIPA ASC 2025 PANEL	Enabling Internationalization of Affective Speech Technology using LLMs	Singapore	2025/10/24
D Forum 2025智慧醫療論壇 大橡股份有限公司&台大醫院	多模態AI驅動智慧健康：院內醫療到健康生活	Taipei	2025/10/17
臺中榮民總醫院總 數位醫學部	語音技術發展和醫療應用	TVGH,Taichung	2025/08/12
國立清華大學 AI研究應用分享討論會	語音處理生成與解析FD	NTHU, Hsinchu	2025/08/06
University of Technology Sydney, Australia	Recent Effort in Affective Speech Research using Generative AI	UTS, Australia	2025/06/24
國立清華大學 竹師教育學院	AI時代中情緒語音技術發展與公平性議題	NTHU, Hsinchu	2025/06/16
清大資料科學社&資料科學家的工作日常 Data2AI 資料科學社群年會	語音情緒辨識技術的公平性	NTHU, Hsinchu	2025/06/07
臺中榮民總醫院總 數位醫學部	醫療人工智慧技術：從院內臨床走向院外生活系列技術分享	TVGH,Taichung	2025/05/07
國家衛生研究院 AI讀書會	醫療人工智慧技術：從院內臨床走向院外生活系列技術分享	NHRI, Miaoli	2025/05/05
國立清華大學電機工程學系 書報討論	Trustworthy AI for Responsible Human-centered Applications	NTHU, Hsinchu	2025/03/28
Tohoku University	Speech Modeling for Health: Diagnosis and Privacy	Sendai	2025/01/21
NTHU & Tohoku University	Trustworthy AI for Responsible Human-centered Applications	Hsinchu	2024/11/15
MBI Symposium (Keynote)	Trustworthy Technology Toward Computing Human's States and Traits	Taichung	2024/10/19
Internet of Senses Research Center	Speech Technology and Affective Computing: from scientific exploration to responsible AI application	Hsinchu	2024/07/18
A.I. For ALL 論壇	A.I. in Life: WHAT'S NEXT?	Taipei	2024/06/11
數位社會與健康研討會	語音科技與情感運算：從科學探索邁向負責任的AI應用	Taipei	2024/06/03
TAAI 人工智慧論壇	Privacy-Enhanced Learning for Clinical Health Applications	Taoyuan	2024/05/24
Artificial Intelligence Research Center (AIRC) (Keynote)	Trustworthy Speech-centric AI Technology	Tokyo	2024/03/08
NVIDIA	Human-centered Machine Intelligence	Hsinchu	2023/11/15
國立新竹中學	你生氣了嗎？電腦感知情緒的發展與未來	Hsinchu	2023/11/08
UNSW Sydney	Human-centered Machine Intelligence	Australia	2023/10/30
國立科學工藝博物館及國家實驗研究院・教師研習活動	AI 時代・語音情緒辨識的關鍵課題	Kaohsiung	2023/07/26
University of South California	Affective Speech Modeling in The AI Era	USC	2023/06/29
國家實驗研究院	深度學習X結構與非結構化醫療資料	Hsinchu	2023/02/16

精準醫療主題論壇			
臺北醫學大學 醫學資訊研究所	Trustworthy AI: Data, User, and Model	Taipei	2022/11/10
KUIS AI Center at Koç University	Affective speech modeling and analysis: robustness, generalization, usability	Virtual	2022/11/08
臺中榮民總醫院 健康大數據國際研討會	A Privacy-aware Learning Paradigm for Clinical AI	Virtual	2022/09/16
NVIDIA	Deep Learning for Affective Speech Modeling	Virtual	2022/08/09
工研院 台大國發所	Speech Affective Technology: Progress and Next Step	Virtual	2022/07/28
台灣兒童青少年精神醫學會	人本人工智慧於兒童青少年精神醫療的運用	Virtual	2022/06/12
台大心理系	Toward Trustworthy SER	Taipei	2022/04/06
科學人雜誌	「情感怎運算？」	Virtual	2022/03/02
陽交大理律學堂	AI 技術與醫療健康應用	Hsinchu	2022/02/09
東吳大學巨量資料管理學院 Soochow University (Keynote)	可信賴人本AI 運算 Trustworthy Human-centered AI Computing	Taipei	2021/12/17
台大生醫 NTUH-Hsinchu	Speech Technology for Health Application	Hsinchu	2021/12/10
Bilateral Workshop between Tohoku University and National Tsing Hua University	Articulatory Phonetic Analysis for Autism	Virtual	2021/11/23
威盛電子 Via Tech	Multimodal Machine Intelligence for Into-Life AI Technology	New Taipei City	2021/09/08
Google AI Boot Camp	Emotion Recognition from Physiology	Virtual	2021/07/08
SNL Japan	Deep Learning Methods for Speech Emotion Recognition	Virtual	2021/06/13
鴻海Next Forum	多模態機器智能於人本運算 Multimodal Machine Intelligence for Into-Life AI Technology	Virtual	2021/06/06
高雄榮總 VGHKS	Multimodal-AI for Health Applications	Virtual	2021/05/07
Apple Inc.	Computing in-Conversation Behavior Signals for Severity and Differential Diagnosis of ASD	Virtual	2021/03/24
APSIPA ASC (Plenary Overview Talk)	Enabling in-to-life Emotion-AI technology: robustness, scalability, and trustworthiness	Virtual	2020/12/02
Mackay Hospital	Human-enabled AI: Mechanistically Translating Human Experience into Scalable Decision Analytics	Mackay, Taipei	2020/11/22
人本智能科技論壇 Human- centered AI Technology Forum	建構深度模型感知情緒項度與個人特質 Deep models for emotion sensing and personal trait recognition	Taipei	2020/11/07
國衛院 NHRI	From variables to deep representations: the key in driving AI-assistive solution for healthcare	Miaoli	2020/10/17
NVIDIA GTC	Emotion sensing with multimodal behavior AI and its applications	Virtual	2020/10/06
調查局 MJIB	人工智慧於人類行為與情緒之分析決策應用 AI for human behavior analysis and emotion recognition	Taipei	2020/09/14
台灣金融研訓院 TABF	HR-Tech 實驗專案-AI 視頻面試的應用 HR-Tech: AI for employee interview	Taipei	2020/07/22

驊訊電子 Cmedia	Learning Intelligent Human-Centered Analytics From Multimodal Signals	Taipei	2020/02/06
AIRC, Japan	Multimodal learning for intelligent human-centered analytics	Tokyo, Japan	2020/01/14
NTHU-EE Tohoku Univ. GSIS Bilateral Workshop	Speech Analytics for Emotion, Interaction, and Mental Health	NTHU	2019/11/22
臺中榮民總醫院-108 年度健保資料研究四院聯合成果發表會 VGHTC-hosted Yearly NHI Data Projects Presentation (Keynote)	Multimodal Health Analytics Learning for Clinical Applications	VGHTC, Taichung	2019/11/05
Taiwan-Canada Bilateral Workshop	Multimodal Learning for Clinical Health Applications	Toronto, Canada	2019/10/30
中央研究院資訊科學所 Academia Sinica: IIS	Human-Centered AI : Enabling Machines to Sense and Interpret Us	National Academy of Taiwan	2019/10/01
人工智慧輔助醫療與倫理、法律、社會:挑戰與因應 AI Assisted Medicine and Ethics, Law, and Society	以人為本的人工智能: 讓機器感知並解釋我們 Human-centered AI: making machines sense and interprets us	NTHU, Taipei	2019/09/21
AU Optics 友達光電	AI 驅使下世代決策應用: 機器智能與人類行為 AI driven next generation analytics: machine intelligence and human behaviors	Hsinchu	2019/08/15
United Chinese School Committees Association of Malaysia	Human-Centered AI : Enabling Machines to Sense and Interpret Us	Kuala Lumpur, Malaysia	2019/05/26
老年精神醫學會年會 TSGP	AI for behavior computing	NTU, Taipei	2019/03/10
人工智慧學校 AIA	AI-enabled decision analytics in our daily life	Hsinchu	2019/03/09
NVIDIA deep learning community	Behavioral Informatics and Interaction Computation Lab	Taipei	2019/01/17
人工智慧學校 AIA	深度學習應用於醫療行為、政治媒體與電影分析 Deep Learning Applied to Medical Behaviors, Political Media and Film Analysis	National Academy of Taiwan	2018/12/08
International Symposium on Affective Science and Application (Keynote)	Advancing emotion AI sensing technology by learning to integrate neuropsychological information	NCCU	2018/12/10
社政資料治理論壇 Social and Political Information Governance Forum	深度學習應用於醫療行為、政治媒體與電影分析 Deep Learning Applied to Medical Behaviors, Political Media and Film Analysis	NTU, Taipei	2018/11/27
Bilateral Workshop between NTHU and Tohoku University GSIS	Joint neuropsychological and expressive acoustics modeling for deep vocal emotion decoding	Sendai, Japan	2018/11/16
AI 工作坊：社科院人工智慧初探 講座 AI Workshop	Human-Centered AI: Learning Human-centered Analytics from Multimodal Data	NCCU, Chiayi	2018/11/10
台灣精神醫學會 SOP (Keynote)	AI for Behavior Computing: Case Studies in Healthcare Applications	CMU, Taichung	2018/11/03
ACM AVEC 2018	Interpersonal Behavior Modeling for Personality,	Seoul, Korea	2018/10/22

(Keynote)	Affect, and Mental States Recognition and Analysis		
人工智慧學校 AIA	AI for Personality, Emotion and Mental States Recognition	Hsinchu	2018/10/06
陽明醫工 YMBME	AI for Human-Centered Behavior Analytics: Health Applications	NYMU, Taipei	2018/09/27
台大醫院精神部 NTUH	AI for Human-Centered Behavior Analytics: Health Applications	NTUH, Taipei	2018/09/17
台灣電通 dentsuMB	Sensing and Interpreting Human with AI	Taipei	2018/08/29
宏盟媒體集團 OMG PHD AI 雲講堂	情緒運算於數位行銷之應用 Emotion computing for digital marketing	Syntrend, Taipei	2018/08/20
人工智慧學校 AIA	Behavior Computing for Emotion and Personality	National Academy of Taiwan	2018/08/10
AI MEETUP TAIPEI	AI for Personality, Emotion and Mental States Recognition	NTU, Taipei	2018/08/09
APPIER	Learning Human-Centered Analytics from Multimodal Data: Case Studies in Health Applications	Appier, Taipei	2018/08/09
林口長庚胸腔內科暨清華大學電機系智慧醫療論壇 CGMH-NTHUEE Forum	Advancing Clinical Decisions beyond Status-quo with Learnable Analytics	CGMH, Taipei	2018/08/04
瑞昱半導體 Realtek	Learning Intelligent Human-centered Analytics from Multimodal Behavior Signals	Hsinchu	2018/08/02
自強基金會	語音處理與情緒辨識	NTHU, Hsinchu	2018/07/30
IEEE ICME Workshop on Media Analytics for Societal Trend	A Pilot Study in Deriving Political Stance Representation with User's Profile and Social Media Posting	San Diego, USA	2018/07/23
Rework in Healthcare	人工智慧醫療診斷分析與應用	Hong Kong	2018/06/08
Artificial intelligence based assistive diagnose and treatment for Autism spectrum disorder	Behavioral Signal Processing: Multimodal Behavior Computing for Autism Spectrum Disorder	Duke Kunshan University	2018/05/24
台大腦心所	Learning from Measurable Signals to Compute Human Emotion	NTUH, Taipei	2018/05/01
工研院產業學院 (12 小時課程)	人工智慧於人類行為與情緒之分析決策應用	National Academy of Taiwan	2018/04/23 2018/04/30
資策會數位教育研究所 (14 小時課程)	人工智慧醫療診斷分析與應用	Institute for Information Industry, Taipei	2018/03/17 2018/03/18
中國醫藥大學	機器智能與人類行為於醫療應用	CMU, Taichung	2018/04/10
林口長庚醫院巨量資料及統計中心	機器智能與人類行為於醫療應用	Chang Gung Memorial Hospital, Linkou	2018/03/27
台灣人智慧學校	機器智能與人類行為於醫療應用	National Academy of Taiwan	2018/03/10
臺灣認知神經科學學會年會 TSCN	A Perspective on using Machine Learning in fMRI Data Modeling: Human face processing and beyond	CMU, Taichung	2018/01/20
圖書資訊學專題計畫成果發表暨研究發展趨勢研討會	大數據分析於資訊行為之研究趨勢	NSTC, Taipei	2017/12/08

(Keynote)			
台灣資料科學協會 (一日課程)	Emotion-AI: 運用人工智慧實現情緒辨識	National Academy of Taiwan	2017/12/16
台灣人工智慧年會	機器智能與人類行為: 跨領域決策分析於醫療應用	National Academy of Taiwan	2017/11/09
Affectiva Inc.	Computational Exploration of Human Emotion Recognition	Boston, USA	2017/10/23
兩岸清華學術交流	機器智能決策分析於醫療應用	Suzhou, China	2017/10/15
Bilateral Workshop between NTHU and Tohoku University GSIS	Computing Human Behavior Health Analytics from Speech, Video, and Language	Hsinchu	2017/10/13
大數據於資訊行為分析與應用 (Keynote)	大數據時代的人類資訊行為研究現況與趨勢	NCCU	2017/09/30
台灣生醫電子工程協會年會	Behavior Computing for Health Applications	Hsinchu	2017/04/28
中華民國臨床心理年會	Deriving Human Behavior Analytics using Audio-Video Data: Recent work in Autism Spectrum Disorder (ASD)	NTU, Taipei	2017/04/23
廣達電腦	人類行為訊號處理: 新興跨學科(醫療、教育) 研究應用實例分享	Taoyuan	2017/03/30
台中榮總醫學研究部 (Big Data 專題演講)	Behavioral Signal Processing: Enabling behavior analytics for Applications in Health and Education	VGHTC, Taichung	2017/02/22
經濟部 Mix Taiwan 創意 X 技術-知識分享沙龍	新興人工智慧跨領域研究實例分享	Taipei	2017/01/18
台灣資料科學協會 (一日課程)	人類行為大數據分析:資料科學如何應用在教育及醫療領域	National Academy of Taiwan	2017/01/15
台大公衛健康與虛擬社群工作坊	人類行為訊號處理: 跨學科(教育、醫療)人類行為量化分析之決策工具	NTU, Taipei	2016/12/16
中華民國精算學會年會	人類行為訊號處理:全新跨學科(教育、醫療)人類行為量化分析之決策工具	Taipei	2016/11/30
Information Retrieval Workshop	Exploration in Human Affect Modeling: Engineering Advancements and Next Steps	National Academy of Taiwan	2016/11/24
台灣資料科學協會 (一日課程)	人類行為大數據分析:資料科學如何應用在教育及醫療領域	National Academy of Taiwan	2016/10/30
Bilateral Workshop between NTHU and Tohoku University GSIS	Deriving Human Behavior Analytics using Audio-Video Data: Challenges and Opportunities	Sendai, Japan	2016/10/25
台灣資料科學年會	人類行為大數據分析:資料科學如何應用在教育及醫療領域	National Academy of Taiwan	2017/07/14
Lorentz Workshop on Interdisciplinary Insights into Small Group and Team Dynamics	Behavioral Signal Processing	Lorentz Center, Leiden, Netherland	2016/06/29
Speech Processing Workshop (SWS)	A window into you: BSP effort for quantifying human behaviors across domains of health, education, and psychology	NTU, Taipei	2016/03/18

Bilateral Workshop between NTHU and Tohoku University GSIS	Cross-corpora Prosody-based Emotional Arousal Indicator and its Analysis in Affective Human Production-Perception Interplay	Hsinchu	2015/10/28
Taiwan-Japan Symposium on Psychological, Physiological, and Electro-Acoustics	Prosody-based Emotional Arousal Indicator and its Analysis in Affective Production-Perception Interplay	NTHU, Hsinchu	2015/10/23
Bilateral Workshop between NTHU and Tohoku University GSIS	Behavioral Signal Processing: An interdisciplinary effort in modeling human behaviors with applications in domains of behavior science	Sendai, Japan	2014/10/21
Speech Processing Workshop (SWS)	Understanding Dyadic Human Spoken Interactions Using Speech Processing Techniques: Case studies in Autism Spectrum Disorder (ASD) and behavioral Couple Therapy	NTPU, Taipei	2014/08/01

Graduate Seminar Talks

NTHU-EE, NTU-EE, NCTU-EE, Academia Sinica-TIGP SNHCC, FJU-CSIE, NTHU-BE (Biomedical Engineering), NTNU-EE PU-FMath, Academia Sinica-Econ, NTUH- Psychiatry, CCU-CogPsy, NCCU-CS, National Academy of Educational Research (NAER), National Academy of Civil Service (NACS)

Media News

Emotion Recognition

科學人

- 《情感怎運算？》(2022)
<https://www.scitw.cc/posts/10427>

天下雜誌

- 《啟動元宇宙的鑰匙：超級 AI 客服》(2021)
<https://www.cw.com.tw/article/5119119>

Human Behavioral Signal Processing

科普影片系列

- 下一步・AI・NEXT・愛 (2021)
<https://youtu.be/hF0vrNgDPEE?si=gUqT8vJmnt5X-5CK>

Speech and Language

Discovery Channel

- 見證台灣金融科技的實力：《從台灣看未來：金融科技》(2020)
<https://www.youtube.com/watch?v=7-p6eCxyeV4>

Behavior Computing

今周刊

- 《火眼面試官讀心術 幫公司海選最佳員工》(2019/01「庶民 AI 大爆發」)
https://event.businesstoday.com.tw/2019/2019AIProject/04_detect-AI.html
- 《AI 實現行為量化建模與客觀辨識 更深入了解每一個人》(2019/09「AI 潛力新星」)
<https://www.businesstoday.com.tw/article/category/154685/post/201909020026/>

能力雜誌

- 《眼神飄、挑眉個性全都露 人體履歷讓對的人上車》(2019/06「HR數位轉型」)
<https://store.cpc.org.tw/Magazine/Contents/MS0760>

- 《清大開發 AI 面試軟體!人工智慧"讀心術"拆解臉與聲音情緒!》(2019)
<https://www.youtube.com/watch?v=lggiU6S3aQY&list=PLd5zGth6CDdXMiHgWalAOknQ8hkNZ8j9J&index=8&t=12s>

Health Analytics

AHEAD AI-enhanced Flow Cytometry Analysis

風傳媒

- 《血癌檢測百倍速！先勁智能創新AI輔助診斷技術，憑實力闖出名聲》(2024)
<https://www.storm.mg/article/5281954>

數位時代

- 《2024台灣AI大賞 | 7秒鐘找出異常細胞！先勁智能用AI加持判讀，成果登入聖經教科書》(2024)
<https://www.bnext.com.tw/article/79724/ahead-medicine--taiwan-impact-ai-award-2024>

環球生技

- 《30分鐘變7秒！先勁智能AI血癌檢驗平台寫下經典教科書》(2024)
https://news.gbimonthly.com/tw/magazine/article_show.php?num=68041

Allianz AI-based health index

風傳媒

- 《安聯人壽發布AI健康指數 桃園到台南老人變健康、東部老人罹癌風險攀升》(2023)
<https://www.storm.mg/article/4860176>

中時電子報

- 《安聯AI健康指數最新結果揭曉 全台健康指數91.1》(2022)
<https://www.chinatimes.com/realtimenews/20220824005416-260410?chdtv>
- 《安聯人壽攜手清大 安聯AI健康指數大探索 首發表》(2021)
<https://www.chinatimes.com/newspapers/20211214000302-260203?chdtv>
- 《安聯、清大攜手打造「安聯AI健康指數」》(2020)
<https://www.chinatimes.com/realtimenews/20200716004262-260410?chdtv>

工商時報

- 《安聯人壽攜清大 打造AI健康指數》(2020)
<https://ctee.com.tw/news/finance/302553.html>

ETToday 新聞雲

- 《安聯人壽攜手清大首推「AI健康指數」！新竹市成全台最健康縣市》(2020)
<https://www.ettoday.net/news/20200716/1762593.htm>
Parkinson's automatic severity assessment from video

華視新聞

- 《中醫大醫結合清大 發展AI判讀帕金森》(2019)
<https://news.cts.com.tw/cts/life/201908/201908191971718.html>

自由時報

- 《結合AI專長輔助診斷帕金森氏症 快又準確》(2019)
<https://news.ltn.com.tw/news/life/breakingnews/2888803?>

今日新聞

- 《顫抖、動作障礙就是帕金森氏症？ AI診斷準度達八成》(2019)
<https://www.nownews.com/news/20190819/3575755/>

健康 2.0

- 《顫抖是中風、關節痛還是... 影像AI輔助判讀帕金森氏症，快又準》(2019)
<https://health.tvbs.com.tw/medical/318110>

AI-based hematological disorder diagnosis

公視台語台 台灣記事簿

- 《智慧醫療已成趨勢！一天可以檢驗一萬隻檢體！【AI醫療時代來矣】》(2025)
<https://www.youtube.com/watch?v=5qNneaauMjI>
- 《AI帶來教育革命？傳統上課內容將改變【AI世代 大學轉型】》(2025)
https://www.youtube.com/watch?v=rZj_9nIKuVk

科技新報

- 《【CES 2019 台灣新創團隊】台大清大開發AI 血液檢測工具，助血癌判讀精準度躍升》(2018)
<https://technews.tw/2018/12/20/ntu-nthu-ai-blood-measure-equipment-ahead/>

Mango Quality Assessment (Tech-Mango)

民視異言堂

- 《嗶人！「無人」救缺工》(2023)
<https://www.youtube.com/watch?v=dIaCnZl4j7o&t=3s>

匯流新聞網

- 《看清大理工腦 如何把芒果推上「國際精品」的舞台！》(2018)
<https://cnews.com.tw/geniusforhome03/>

USC News

Alumni News

- 《Why ECE》(2019)
<https://minghsiehece.usc.edu/category/alumni-in-academia-profiles/>

NTHU-Novatek Distinguished Talent Chair

中央社

- 《清大設傑出人才發展基金 幫教授加薪最多100萬》(2025)
<https://www.nthu.edu.tw/hotNews/content/1205>

國立教育廣播電臺

- 《清大頒發傑出人才發展獎勵金 教授年薪上看5百萬》(2025)
<https://www.cna.com.tw/news/ahel/202502190221.aspx>

ETtoday新聞雲

- 《教授年薪上看500萬！清大搶人才出招 募11億推獎勵金》(2025)
<https://www.ner.gov.tw/news/67b599a61a9cab0022831067>

NOWnews今日新聞

- 《清大募11億元推獎勵金搶人才 教授年薪上看500萬》(2025)
<https://www.nownews.com/news/6648883>

TechNice科技島

- 《教授年薪500萬拚搶才！清大募11億發獎勵金、逾1/3師領到》(2025)
<https://www.technice.com.tw/issues/digitrans/165027/>

太報 Tai Sounds

- 《教授年薪可達500萬 清大募11億基金加薪拼攬才》(2025)
<https://www.taisounds.com/news/content/91/174427>

聯合新聞

- 《清大傑出人才發展基金幫教授加薪 年薪最高上看500萬》(2025)
<https://udn.com/news/story/6928/8558829>

知新聞

- 《清大設立11億元獎勵基金盼留才 教授年薪上看500萬元》(2025)
<https://www.knews.com.tw/news/F3899DFDC5EFCCFBB5EC42071D1FAF74>

自由時報

- 《清大募11億 教授年薪上看500萬》(2025)
<https://news.ltn.com.tw/news/life/paper/1692658>

公視

- 《清大傑出人才發展基金募得11億 近300位教師領學術表現獎勵》(2025)
<https://www.youtube.com/watch?v=vkmPYWGQ2jA>

青年日報

- 《清大設傑出人才發展基金 教授年薪上看500萬》(2025)
<https://www.ydn.com.tw/news/newsInsidePage?chapterID=1745409>

中國時報

- 《清大募11億元推獎勵金搶人才 教授年薪上看500萬》(2025)
<https://www.chinatimes.com/realtimenews/20250219003340-260405?chdtv>

Student Awards and Achievements under Supervision

Award	Name	Year
114學年度教育部博士生獎學金	黃博謙	2025
114年IEEE Taipei Section碩博士論文獎	簡婉軒	2025
清大電機系碩博士入學成績優異獎學金	溫家馨	2025
新思科技-劉炯朗優秀博士生獎學金	陳欣妤	2025
ISCA Travel Grant INTERSPEECH	周星航	2025
SPS Travel Grant ICASSP	周惶振	2025
SPS Travel Grant ICASSP	Shreya	2025
SPS Travel Grant ICASSP	蘇柏豪	2025
SPS Travel Grant ICASSP	曾靖桐	2025
SPS Travel Grant ICASSP	陳欣妤	2025
IEEE SLT Travel Grant	周惶振	2024

平安菁英教育基金會菁英獎學金 (Top15)	周惶振	2024
美律電聲論文獎銀質獎	周惶振	2024
國科會補助赴國外從事博士後研究 (博士後千里馬計畫)	周惶振	2024
國科會補助赴國外從事博士後研究 (博士後千里馬計畫)	蘇柏豪	2024
平安菁英教育基金會菁英獎學金	簡婉軒	2024
經濟部智慧財產局 產業專利分析與布局競賽第二名	簡婉軒	2024
清大電機系碩博士入學成績優異獎學金	沈韋翔	2024
清大電機系碩博士入學成績優異獎學金	陳敬涵	2024
IEEE BSN Travel Grant	陳品肇	2024
IEEE BSN Travel Grant	王靖淳	2024
IEEE BSN Travel Grant	簡婉軒	2024
聯詠科技教育基金會博士生獎學金	吳亞澤	2024
Google East Asia Student Travel Grants	簡婉軒	2024
IEEE ICASSP Travel Grant ICASSP	簡婉軒	2023
Google East Asia Student Travel Grants ICASSP	簡婉軒	2023
ISCA INTERSPEECH Travel Grant INTERSPEECH	林蔭澤	2023
財團法人傑出人才發展基金會-優秀學生出國開會 INTERSPEECH	周惶振	2023
聯詠科技教育基金會博士生獎學金	吳亞澤	2023
中技社科技獎學金	Shreya	2023
中華民國計算語言學學會第二十三屆博碩士論文獎優等	蘇柏豪	2023
Google East Asia Student Travel Grants	周惶振	2022
清大電機系碩博士入學成績優異獎學金	王靖淳	2022
聯詠科技教育基金會博士生獎學金	周惶振	2022
Google East Asia Student Travel Grants	周惶振	2022
財團法人傑出人才發展基金會-優秀學生出國開會	周惶振	2022
ISCA INTERSPEECH Travel Grant	周惶振	2022
中華民國計算語言學學會第二十二屆博碩士論文獎佳作	李政霖	2022
清大電機系碩博士入學成績優異獎學金	翁俊傑	2022
平安菁英教育基金會菁英獎學金	蘇柏豪	2022
清大培育優秀博士生獎學金	簡婉軒	2022
清大通訊所碩士班甄試入學獎學金	吳柏澄	2021
聯詠科技教育基金會博士生獎學金	李政霖	2021
聯詠科技教育基金會博士生獎學金	林昀劭	2021
聯詠科技教育基金會博士生獎學金	張鈞閔	2021
中華扶輪獎學金	簡婉軒	2021
ISCA INTERSPEECH Travel Grant	黃昱霖	2021
美律電聲論文組銅質獎	周惶振	2021
聯詠科技教育基金會博士生獎學金	李政霖	2020

聯詠科技教育基金會博士生獎學金	張鈞閔	2020
中華扶輪獎學金	周惶振	2020
清大電機研究生成績優異獎學金	許伯謙	2020
平安菁英教育基金會菁英獎學金	陳金博	2020
聯詠科技教育基金會碩士獎學金	黃昱霖	2020
聯詠科技教育基金會碩士獎學金	黃雅琳	2020
財團法人傑出人才發展基金會-優秀學生出國開會	周惶振	2019
國科會補助國內研究生出席國際學術會議	周惶振	2019
美律電聲論文組銅質獎	林昀劭	2019
IEEE EMBC Travel Grant	李政霖	2019
清大電機研究生成績優異獎學金	林孟翰	2019
聯詠科技教育基金會博士生獎學金	張鈞閔	2019
清大校長獎學金	陳奐宇	2019
清大電機研究生成績優異獎學金	黃昱霖	2019
玉山培育傑出人才-科技類	洪彗庭	2019
IEEE ICASSP Travel Grant	楊皓鈞	2019
聯詠科技教育基金會碩士獎學金	葉松霖	2019
Garmin 獎學金	李政霖	2018
ISCA INTERSPEECH Travel Grant	林昀劭	2018
清大電機研究生成績優異獎學金	柯明亞	2018
聯詠科技教育基金會碩士獎學金	張為皓	2018
清大電機研究生成績優異獎學金	陳奐宇	2018
清大校長獎學金	楊皓鈞	2018
清大電機研究生成績優異獎學金	葉松霖	2018
聯詠科技教育基金會碩士獎學金	謝宛庭	2018
清大電機研究生成績優異獎學金	鍾舜昌	2018
清大校長獎學金	蘇柏豪	2018
清大校長獎學金	李政霖	2017
清大校長獎學金	周惶振	2017
IEEE ACII Travel Grant	周惶振	2017
聯詠科技教育基金會碩士獎學金	林昀劭	2017
清大校長獎學金	林昀劭	2017
Appier 人工智慧與資訊科技頂尖研究獎勵計畫	林昀劭	2017
清大電機研究生成績優異獎學金	張為皓	2017
清大電機研究生成績優異獎學金	謝宛庭	2017
平安菁英教育基金會菁英獎學金	張鈞閔	2016
清大校長獎學金	張鈞閔	2016
富士軟片資訊文教基金會 (全錄文教基金會) 學術研究獎助獎助學金	陳金博	2016

富士軟片資訊文教基金會（全錄文教基金會）學術研究獎助獎助學金	周惶振	2016
清大校長獎學金	陳金博	2016
聯詠科技教育基金會碩士獎學金	黃文俞	2016
清大電機研究生成績優異獎學金	陳金博	2015
JSALT Workshop Summer School Scholarship	陳金博	2015
清大電機研究生成績優異獎學金	黃文俞	2015
聯詠科技教育基金會碩士獎學金	蕭善文	2015