**Chi-Chun Lee (Jeremy)**

**National Tsing Hua University**

Department of Electrical Engineering

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**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**

**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

###### 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

###### 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" in Autism, 2025

1. 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.compbiomed.2025.110394
2. 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
3. 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.
4. 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.
5. 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.
6. 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.
7. 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, Prepints. doi: 10.1109/TAFFC.2024.3411290.
8. 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.
9. 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.
10. 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.
11. **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.
12. 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
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. **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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. **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.
42. 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-Jun 2014. doi: 10.1109/TAFFC.2014.2326393.
43. 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.
44. 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 coding system 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.
45. **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.
46. 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 Le**e\*, "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\***, "ZSDEVC: 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.
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**Abstract**

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**Selected Funded Projects**

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

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| --- | --- | --- | --- |
| **Project Title** | **Role** | **Duration** | **Agency** |
| 智慧醫療產壆聯盟－呯吸音AI判讀與遠距照護應用 Al 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  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－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  Cyber-Physical Crowds | CO-PI | 2018/01/01~2021/12/31 | NSTC |
| 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 | PI | 2016/08/01~2018/03/31 | NSTC |
| 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 Neuroperceptual 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)*

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| 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 | 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畫  110-111 Using AI-based method for pre-school children development screening and monitoring | PI | 2021/04/01~2022/03/30 | Mackay Hospital |
| 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)*

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| 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 | PI | 2025/06/01~2026/11/30 | cofit |
| 呼吸音AI判讀與遠距照護應用 | PI | 2024/12/01~2025/11/30 | 廣達 |
| AI專案技術研究 | PI | 2024/09/01~2025/08/31 | Cmedia |
| iMGenie DataFlow & MLFlow 開發研究 | PI | 2024/05/01~2025/04/30 | Cathay FHC |
| AI專案技術研究 | PI | 2023/09/01~2024/08/31 | 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*

APSIPAForum: 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 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 (2018-21), 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 TAFFE, 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 Propos*als

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*

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| **Organization** | **Topic** | **Place** | **Date** |
| 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 Al | 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  精準醫療主題論壇 | 深度學習X結構與非結構化醫療資料 | Hsinchu | 2023/02/16 |
| 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 neuroperceptual 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 neuroperceptual 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  (Keynote) | Interpersonal Behavior Modeling for Personality, Affect, and Mental States Recognition and Analysis | Seoul, Korea | 2018/10/22 |
| 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  (Keynote) | 大數據分析於資訊行為之研究趨勢 | NSTC, Taipei | 2017/12/08 |
| 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, Japen | 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, Japen | 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)

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*Emotion Recognition*

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

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* 《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*

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

*Speech and Language*

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* 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*

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* 《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/>

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* 《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>

三立新聞台（透視新聞）

* 《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=IggjU6S3aQY&list=PLd5zGth6CDdXMiHgWalAOknQ8hkNZ8j9J&index=8&t=12s>

*Health Analytics*

AHEAD AI-enhanced Flow Cytometry Analysis

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* 《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>

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* 《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>

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* 《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>

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* 《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>

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* 《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>

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

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* 《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

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* 《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>

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* 《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?>

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* 《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/>

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* 《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*

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* 《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>

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  <https://www.youtube.com/watch?v=rZj_9nIKuVk>

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  <https://cnews.com.tw/geniusforhome03/>

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Alumni News

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

*NTHU-Novatek Distinguished Talent Chair*

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* 《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>

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* 《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>

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  <https://www.nownews.com/news/6648883>

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* 《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)  
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* 《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>

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  <https://news.ltn.com.tw/news/life/paper/1692658>

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* 《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)  
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指導學生：周惶振

論文題目：少數觀點的重要性：使用全包含標籤聚合規則以人類主觀標記評估語音情緒類別辨識系統 (Minority Views Matter: Evaluating Speech Emotion Classifiers with Human Subjective Annotations by an All-Inclusive Aggregation Rule)

* ACLCLP 2024 第二十四屆博碩士論文獎佳作

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論文題目：學習深度特徵及標記空間以強化辨識任務  
(Learning Deep Feature and Label Space to Enhance Discriminative Recognition Tasks)