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. 2022 – Present: Professor

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

Joint Appointment:

Institute of Communication Engineering, College of Semiconductor Research, Department of Kinesiology, Biomed AI Ph.D. Program, International Intercollegiate Ph.D. Program

Aug. 2018 – Jul. 2022: Associate Professor

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

Joint Appointment:

Institute of Communication Engineering, College of Semiconductor Research, Department of Kinesiology, Biomed AI Ph.D. Program, International Intercollegiate Ph.D. Program

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

IEEE Senior Member (2020)
Foundation for the Advancement of Outstanding Scholarship: Young Innovator Award (2020)
Chinese Institute of Electrical Engineering: Outstanding Young Electrical Engineer Award (2020)
Institute of Information & Computing Machinery: K.T. Li Young Researcher Award (2020)
National Tsing Hua University: Industry Collaboration Excellence Award (2021)
Ministry of Science and Technology: Future Tech Award (2018, 2019)
Merry Incorporated: Electroacoustics Thesis Award – Bronze Award (2019, 2021)
MediaTek: Geniusforhome Special Prize Award - Top 10 (2018)
Taiwan Tech Star @ CES 2019 Eureka Park
Most Cited Journal published in 2014 up to 2016 (Journal of Speech Communication)
Magna Cum Laude (2007)
Annenberg Fellowship, University of Southern California (2007-2009)
Undergraduate Dean's List (2003 – 2007) 2020 IEEE EMBC Best Paper (Top 15 Finalist)
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 Finalist)
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 Stefan Steidl Computational Paralinguistics Award (Styrian Dialect, Baby Sound)
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] **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 AffectiveComputing: Oxford University Press, 2014. ISBN: 9780199942237.

Journal

[1] Jeng-Lin Li and **Chi-Chun Lee***, "An Enroll-to-Verify Approach for Cross-Task Unseen Emotion Class Recognition", IEEE Transactions on Affective Computing, pp. 1-13, 2022. doi: 10.1109/TAFFC.2022.3183166.
[2] 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, pp. 1-1, 2022. doi: 10.1109/JBHI.2022.3175514.
[3] 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.
[4] Bo-Hao Su and **Chi-Chun Lee***, "Unsupervised Cross-Corpus Speech Emotion Recognition Using a Multi-Source Cycle-GAN", IEEE Transactions on Affective Computing, no. 01, pp. 1-1, 2022. doi: 10.1109/TAFFC.2022.3146325.
[5] Hao-Chun Yang and **Chi-Chun Lee***, "A Media-Guided Attentive Graphical Network for Personality RecognitionUsing Physiology", IEEE Transactions on Affective Computing, 2021. doi: 10.1109/taffc.2021.3090040.
[6] 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.

[7] 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 AcuteLeukemias and Distinction from Nonneoplastic Cytopenias using Flow Cytometry Data", American Journal of Clinical Pathology, 2021. doi: 10.1093/ajcp/aqab148.

[8] **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.

[9] 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.

[10] 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.

[11] 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.

[12] 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.

[13] Yun-Shao Lin, Susan Shur-Fen Gau, and **Chi-Chun Lee***, "A Multimodal Interlocutor-Modulated Attentional BLSTMfor 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.

[14] Wei-Cheng Lin and **Chi-Chun Lee***, "Computational Analyses of Thin-Sliced Behavior Segments in Session-LevelAffect Perception", IEEE Transactions on Affective Computing, vol. 11, no. 4, pp. 560-573, 2020. doi: 10.1109/Taffc.2018.2816654.

[15] 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

[16] 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.

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[22] 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.
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Conference Proceedings

[1] 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 IEEE ACII 2022, 2022.
[2] 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 IEEE ACII 2022, 2022.
[3] Bo-Hao Su and **Chi-Chun Lee***, "Vaccinating SER to Neutralize Adversarial Attacks with Self-Supervised Augmentation Strategy", in INTERSPEECH 2022, 2022.
[4] 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.
[5] 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.
[6] Chun-Yu Chen, Yun-Shao Lin, and **Chi-Chun Lee***, "Emotion-Shift Aware CRF for Decoding Emotion Sequence in Conversation", in INTERSPEECH 2022, 2022.
[7] 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.

[8] Meng-Han Lin, Jeng-Lin Li, and **Chi-Chun Lee***, "Improving Multimodal Movie Scene Segmentation Using Mixture of Acoustic Experts", in EUSIPCO 2022, 2022.
[9] 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 Development-Behavioral Screening", in IEEE ICHD 2022, 2022.
[10] 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.
[11] 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.
[12] 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.
[13] 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.
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[16] Huang-Cheng Chou, Woan-Shiuan Chien, Da-Cheng Juan, and **Chi-Chun Lee***, "``Does it Matter When I Think YouAre 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.
[17] Woan-Shiuan Chien, Huang-Cheng Chou, and **Chi-Chun Lee***, "Self-assessed Emotion Classification from Acousticand Physiological Features within Small-group Conversation", in ACM ICMI 2021, 2021, pp. 230–239. doi: 10.1145/3461615.3485411.
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[24] 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.
[25] 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.
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Recognition Network", in INTERSPEECH 2020, 2020, pp. 389-393. doi: 10.21437/Interspeech.2020-1688.
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Abstract

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Selected Funded Projects

科技部 Ministry of Science and Technology (MOST)

Project Title	Role	Duration	Agency
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	MOST
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	MOST
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	MOST
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	MOST
群體人工智慧--群體人工智慧之網宇群眾分包機器學習	CO-PI	2018/01/01~2021/12/31	MOST

Crowd AI - Crowdsourced Machine Learning from 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	MOST
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	MOST
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	MOST
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	MOST
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	MOST
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	MOST
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	MOST
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	MOST
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	MOST
依據自閉症診斷觀察量表開發多模態演算法以量化	PI	2016/08/01~2018/03/31	MOST

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 Neuroperceptual Mechanisms of Vocal Emotion Expressions using Brain MR Neuroimaging and Speech Affective Computing	CO-PI	2015/01/01~2016/12/31	MOST
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	MOST

Other Agencies (NPO)

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)

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	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

IEEE Transaction on Affective Computing (2020-), 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: Image, Video, Multimedia (IVM), Machine Learning Data Analytics (MLDA) 2019-
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

APSIPA (Image, Video, Multimedia), (Machine Learning) 2019-2020

Journal Special Issue Editor

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

Conference Organizer: International

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)
International Symposium on Chinese Spoken Language Processing (**ISCSLP**): Sponsorship chair (2018), Special session chair (2020)

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

Ministry of Science and Technology Proposal Review 2018 Ministry of Justice Taiwan 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
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	Affective speech modeling and analysis: robustness,	Virtual	2022/11/08

at Koç University	generalization, usability		
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	Academia Sinica	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	Academia Sinica	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	Academia Sinica	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	杜克昆山 (Duke Kunshan University)	2018/05/24
台大腦心所	Learning from Measurable Signals to Compute Human Emotion	臺大醫院	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	新竹工研院	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	台北資策會	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	中國醫	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	林口長庚	2018/03/27
台灣人智慧學校	機器智能與人類行為於醫療應用	中研院	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	中國醫	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	台北科技部院區	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	中研院	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	中研院	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	蘇州，中國	2017/10/15
Bilateral Workshop between NTHU and Tohoku University GSIS	Computing Human Behavior Health Analytics from Speech, Video, and Language	新竹，台灣	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	政大	2017/09/30
台灣生醫電子工程協會年會	Behavior Computing for Health Applications	新竹喜來登	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)	台大	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	廣達	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	台中榮總	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	台北、經濟部線上直播	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	中研院	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	台大公衛	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	世貿會場	2016/11/30
Information Retrieval Workshop	Exploration in Human Affect Modeling: Engineering Advancements and Next Steps	中研院	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	中研院	2016/10/30
Bilateral Workshop between NTHU and Tohoku University GSIS	Deriving Human Behavior Analytics using Audio-Video Data: Challenges and Opportunities	仙台，日本	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	中研院	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	台大	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	新竹，台灣	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	清大	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	仙台，日本	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	台北大學	2014/08/01

Graduate Seminar Talks

NTHU-EE, NTU-EE, NCTU-EE, Academia Sinica-TIGP SNHCC, FJU-CSIE, 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

天下雜誌:

- 啟動元宇宙的鑰匙：超級 AI 客服
  https://www.cw.com.tw/article/5119119?fbclid=IwAR14YBXXrBD8IaBAOhEUdN5BHFl-dDWJoDgRW5fYOdmSdiNatfvN3IGqrN8

Human Behavioral Signal Processing

科普影片系列:

- 下一步，AI。NEXT，愛
  https://www.youtube.com/watch?app=desktop&v=hF0vrNgDPEE&fbclid=IwAR2SPuTsJ4Q6-7j0qXXST_i2QsR8QwB63nqpZ93uu7OYd4axJ0lcRaYJmGo&ab_channel=%E6%9D%B1%E8%87%BA%E5%82%B3%E6%92%AD

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》
  https://www.youtube.com/watch?v=7-p6eCxyeV4

Behavior Computing

今周刊:

- 1153 期 (2019/01) 庶民 AI 大爆發 《火眼面試官讀心術 幫公司海選最佳員工》
  https://event.businesstoday.com.tw/2019/2019AIProject/04_detect-AI.html
- AI 潛力新星 (2019/09) 《AI 實現行為量化建模與客觀辨識 更深入了解每一個人》
  https://www.businesstoday.com.tw/article/category/154685/post/201909020026/

能力雜誌:

- 760 期 (2019/06)《眼神飄、挑眉個性全都露 人體履歷讓對的人上車》

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!
  https://www.youtube.com/watch?v=IggjU6S3aQY&list=PLd5zGth6CDdXMiHgWalAOknQ8hkNZ8j9J&index=8&t=12s

Health Analytics

Allianz AI-based health index (2021)

- 聯合新聞網 https://udn.com/news/story/7239/5959147
- 中時電子報 https://www.chinatimes.com/newspapers/20211214000302-260203?chdtv

Allianz AI-based health index (2020)

- 中時電子報 https://www.chinatimes.com/realtimenews/20200716004262-260410?chdtv
- 工商時報 https://ctee.com.tw/news/finance/302553.html
- ETToday 新聞雲 https://www.ettoday.net/news/20200716/1762593.htm
- 蘋果電子報 https://tw.appledaily.com/property/20200716/R5XQVGMRZLVMN5JHSD7T4X67DI/

Parkinson's automatic severity assessment from video

- 華視新聞 https://news.cts.com.tw/cts/life/201908/201908191971718.html
- 自由時報 https://news.ltn.com.tw/news/life/breakingnews/2888803?
- 今日新聞 https://www.nownews.com/news/20190819/3575755/
- 健康 2.0 https://health.tvbs.com.tw/medical/318110

AI-based hematological disorder diagnosis

- Technews 【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
  https://technews.tw/2018/12/20/ntu-nthu-ai-blood-measure-equipment-ahead/?fbclid=IwAR1Mxp6Etw2nM-KcFqKkWoc-DxJRswgot_O4HnZKukJDWkUwFFxpdfMy3iI

Mango Quality Assessment (Tech-Mango)

- 看清大理工腦 如何把芒果推上「國際精品」的舞台！
  https://tw.news.yahoo.com/%E7%9C%8B%E6%B8%85%E5%A4%A7%E7%90%86%E5%B7%A5%E8%85%A6-%E5%A6%82%E4%BD%95%E6%8A%8A%E8%8A%92%E6%9E%9C%E6%8E%A8%E4%B8%8A-%E5%9C%8B%E9%9A%9B%E7%B2%BE%E5%93%81-%E7%9A%84%E8%88%9E%E5%8F%B0-055402262.html?guccounter=1

USC News

- Alumni News (Why ECE): http://bit.ly/2KVp1MO