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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**

May 2007

Professional Experiences

Aug. 2018 – Present: 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 (2020)

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)

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)

2010 Interspeech Best Paper Award (Top 3)

2009 Interspeech Emotion Challenge First Place Winner (Classifier Sub-Challenge)

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.

Chapter

- [1] **Chi-Chun Lee***, Jangwon Kim, Angeliki Metallinou, Carlos Busso, Sungbok Lee, 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.

Journals

- [1] 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.
- [2] 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.
- [3] 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.
- [4] **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.
- [5] 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.
- [6] 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.

- [7] 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.
- [8] 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.
- [9] 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.
- [10] 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.
- [11] 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
- [12] 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.
- [13] 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.
- [14] 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.
- [15] 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.
- [16] 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.
- [17] 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.
- [18] 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.
- [19] 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.
- [20] 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.

- [21] 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.
- [22] 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.
- [23] **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.
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- [25] 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.
- [26] 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.
- [27] **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.
- [28] 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] 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.
- [2] Ya-Lin Huang, Hao-Chun Yang, and **Chi-Chun Lee***, "Federated Learning via Conditioned Mutual Learning for Alzheimer's Disease Classification on T1w MRI", in *IEEE EMBC 2021*, 2021, pp. 2427-2432. doi: 10.1109/EMBC46164.2021.9630382.
- [3] Yu-Lin Huang, Bo-Hao Su, YW Peter Hong, and **Chi-Chun Lee***, "An Attribute-Aligned Strategy for Learning Speech Representation", in *INTERSPEECH 2021*, 2021, pp. 1179-1183. doi: 10.21437/Interspeech.2021-1341.
- [4] Huang-Cheng Chou, Woan-Shiuan Chien, Da-Cheng Juan, and **Chi-Chun Lee***, "'Does it Matter When I Think You Are Lying?' Improving Deception Detection by Integrating Interlocutor's Judgements in Conversations", in *ACL-IJCNLP 2021*, 2021, pp. 1846-1860. doi: 10.18653/v1/2021.findings-acl.162.
- [5] Woan-Shiuan Chien, Huang-Cheng Chou, and **Chi-Chun Lee***, "Self-assessed Emotion Classification from Acoustic and Physiological Features within Small-group Conversation", in *ACM ICMI 2021*, 2021, pp. 230-239. doi: 10.1145/3461615.3485411.
- [6] Woan-Shiuan Chien, Huang-Cheng Chou, and **Chi-Chun Lee***, "Belongingness and Satisfaction Recognition from Physiological Synchrony with A Group-Modulated Attentive BLSTM under Small-group Conversation", in *ACM ICMI 2021*, 2021, pp. 220-229. doi: 10.1145/3461615.3485410.

- [7] Huan-Yu Chen, Yun-Shao Lin, and **Chi-Chun Lee***, "Through the Words of Viewers: Using Comment-Content Entangled Network for Humor Impression Recognition", in IEEE SLT 2021, 2021, pp. 1058-1064. doi: 10.1109/slt48900.2021.9383564.
- [8] Shun-Chang Zhong, Bo-Hao Su, Wei Huang, Yi-Ching Liu, and **Chi-Chun Lee***, "Predicting Collaborative Task Performance Using Graph Interlocutor Acoustic Network in Small Group Interaction", in INTERSPEECH 2020, 2020, pp. 3122-3126. doi: 10.21437/Interspeech.2020-1698.
- [9] Sung-Lin Yeh, Yun-Shao Lin, and **Chi-Chun Lee***, "A Dialogical Emotion Decoder for Speech Emotion Recognition in Spoken Dialog", in IEEE ICASSP 2020, 2020, pp. 6479-6483. doi: 10.1109/icassp40776.2020.9053561.
- [10] Sung-Lin Yeh, Yun-Shao Lin, and **Chi-Chun Lee***, "Speech Representation Learning for Emotion Recognition Using End-to-End ASR with Factorized Adaptation", in INTERSPEECH 2020, 2020, pp. 536-540. doi: 10.21437/Interspeech.2020-2524.
- [11] Hao-Chun Yang and **Chi-Chun Lee***, "A Siamese Content-Attentive Graph Convolutional Network for Personality Recognition Using Physiology", in IEEE ICASSP 2020, 2020, pp. 4362-4366. doi: 10.1109/icassp40776.2020.9054226.
- [12] 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.
- [13] 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.
- [14] Bo-Hao Su, Chun-Min Chang, Yun-Shao Lin, and **Chi-Chun Lee***, "Improving Speech Emotion Recognition Using Graph Attentive Bi-Directional Gated Recurrent Unit Network", in INTERSPEECH 2020, 2020, pp. 506-510. doi: 10.21437/Interspeech.2020-1733.
- [15] Yun-Shao Lin and **Chi-Chun Lee***, "Predicting Performance Outcome with a Conversational Graph Convolutional Network for Small Group Interactions", in IEEE ICASSP 2020, 2020, pp. 8044-8048. doi: 10.1109/icassp40776.2020.9053308.
- [16] Jeng-Lin Li and **Chi-Chun Lee***, "Using Speaker-Aligned Graph Memory Block in Multimodally Attentive Emotion Recognition Network", in INTERSPEECH 2020, 2020, pp. 389-393. doi: 10.21437/Interspeech.2020-1688.
- [17] Jeng-Lin Li, Ting-Yu Chang, Yu-Fen Wang, Bor-Sheng Ko, Jih-Luh Tang, and **Chi-Chun Lee***, "A Knowledge-Reserved Distillation with Complementary Transfer for Automated FC-based Classification Across Hematological Malignancies", in IEEE EMBC 2020, 2020, pp. 5482-5485. doi: 10.1109/embc44109.2020.9176546.
- [18] Chen-Ying Hung, Huan-Yu Chen, Lawrence J. K. Wee, Ching-Heng Lin, and **Chi-Chun Lee***, "Deriving A Novel Health Index Using A Large-Scale Population Based Electronic Health Record With Deep Networks", in IEEE EMBC 2021, 2020, pp. 5872-5875. doi: 10.1109/embc44109.2020.9176454.
- [19] Ya-Lin Huang, Wan-Ting Hsieh, Hao-Chun Yang, and **Chi-Chun Lee***, "Conditional Domain Adversarial Transfer for Robust Cross-Site ADHD Classification Using Functional MRI", in IEEE ICASSP 2020, 2020, pp. 1190-1194. doi: 10.1109/icassp40776.2020.9054606.
- [20] Wan-Ting Hsieh, Jeremy Lefort-Besnard, Hao-Chun Yang, Li-Wei Kuo, and **Chi-Chun Lee***, "Behavior Score-Embedded Brain Encoder Network for Improved Classification of Alzheimer Disease Using Resting State fMRI", in IEEE EMBC 2020, 2020, pp. 5486-5489. doi: 10.1109/embc44109.2020.9175312.
- [21] Ming-Shan Gao, Fu-Sheng Tsai, and **Chi-Chun Lee***, "Learning a Phenotypic-Attribute Attentional Brain Connectivity Embedding for ADHD Classification using rs-fMRI", in IEEE EMBC 2020, 2020, pp. 5472-5475. doi: 10.1109/embc44109.2020.9175789.
- [22] Huang-Cheng Chou and **Chi-Chun Lee***, "Learning to Recognize Per-Rater's Emotion Perception Using Co-Rater Training Strategy with Soft and Hard Labels", in INTERSPEECH 2020, 2020, pp. 4108-4112. doi: 10.21437/Interspeech.2020-1714.
- [23] Huang-Cheng Chou and **Chi-Chun Lee***, "'Your Behavior Makes Me Think It Is a Lie': Recognizing Perceived Deception using Multimodal Data in Dialog Games", in APSIPA ASC 2020, 2020, pp. 393-402.

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- [27] Shun-Chang Zhong, Yun-Shao Lin, Chun-Min Chang, Yi-Ching Liu, and **Chi-Chun Lee***, "Predicting Group Performances Using a Personality Composite-Network Architecture During Collaborative Task", in INTERSPEECH 2019, 2019, pp. 1676-1680. doi: 10.21437/Interspeech.2019-2087.
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- [29] Sung-Lin Yeh, Gao-Yi Chao, Bo-Hao Su, Yu-Lin Huang, Meng-Han Lin, Yin-Chun Tsai, Yu-Wen Tai, Zheng-Chi Lu, Chieh-Yu Chen, Tsung-Ming Tai, Chiu-Wang Tseng, Cheng-Kuang Lee, and **Chi-Chun Lee***, "Using Attention Networks and Adversarial Augmentation for Styrian Dialect Continuous Sleepiness and Baby Sound Recognition", in INTERSPEECH 2019, 2019, pp. 2398-2402. doi: 10.21437/Interspeech.2019-2110.
- [30] Hao-Chun Yang and **Chi-Chun Lee***, "Annotation Matters: A Comprehensive Study on Recognizing Intended, Self-reported, and Observed Emotion Labels using Physiology", in ACII 2019, 2019, pp. 1-7. doi: 10.1109/acii.2019.8925516.
- [31] Hao-Chun Yang and **Chi-Chun Lee***, "An Attribute-invariant Variational Learning for Emotion Recognition Using Physiology", in IEEE ICASSP 2019, 2019, pp. 1184-1188. doi: 10.1109/icassp.2019.8683290.
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- [33] Chih-Chuan Lu, Jeng-Lin Li, Yu-Fen Wang, Bor-Sheng Ko, Jih-Luh Tang, and **Chi-Chun Lee***, "A BLSTM with Attention Network for Predicting Acute Myeloid Leukemia Patient's Prognosis using Comprehensive Clinical Parameters", in IEEE EMBC 2019, 2019, pp. 2455-2458. doi: 10.1109/embc.2019.8856524.
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- [36] Jeng-Lin Li and **Chi-Chun Lee***, "Attentive to Individual: A Multimodal Emotion Recognition Network with Personalized Attention Profile", in INTERSPEECH 2019, 2019, pp. 211-215. doi: 10.21437/Interspeech.2019-2044.
- [37] Ming-Ya Ko, Jeng-Lin Li, and **Chi-Chun Lee***, "Learning Minimal Intra-Genre Multimodal Embedding from Trailer Content and Reactor Expressions for Box Office Prediction", in IEEE ICME 2019, 2019, pp. 1804-1809. doi: 10.1109/icme.2019.00310.
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- [40] Chih-Hsiang Huang, Huang-Cheng Chou, Yi-Tong Wu, **Chi-Chun Lee**, and Yi-Wen Liu, "Acoustic Indicators of Deception in Mandarin Daily Conversations Recorded from an Interactive Game", in INTERSPEECH 2019, 2019, pp. 1731-1735. doi: 10.21437/Interspeech.2019-2216.
- [41] Wan-Ting Hsieh, Hao-Chun Yang, Fu-Sheng Tsai, Chon-Wen Shyi, and **Chi-Chun Lee***, "An Event-contrastive Connectome Network for Automatic Assessment of Individual Face Processing and Memory Ability", in IEEE ICASSP 2019, 2019, pp. 1358-1362. doi: 10.1109/icassp.2019.8682521.
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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	2021/11/01~2022/10/31	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 Crowd AI - Crowdsourced Machine Learning from Cyber-Physical Crowds	CO-PI	2018/01/01~2021/12/31	MOST
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	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	CO-PI	2018/08/01~2019/07/31	MOST

Syndrome patients by machine learning of their clinical data			
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	MOST
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	PI	2014/08/01~2017/07/31	MOST

Robust Multimodal Emotion Modeling for Cross-domain Applications			
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Other Agencies (NPO)

AI 偵謊輔助系統委外建置案	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	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	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	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	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	PI	2019/10/01~2020/03/31	Ministry of Education
AI 技術應用實證輔導機制	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	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	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	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	Sub-project PI	2016/01/01~2016/12/31	VGHUST

Developing Stroke Predictive Index using Deep Learning Neural Network from Massive Electronic Health Records			
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

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	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 技術研究	PI	2020/07/01~2021/06/30	Cmedia
情緒 AI 辨識技術研究	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	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	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	PI	2020/01/04~2022/03/31	E-Sun
AI 篩果技術開發	PI	2019/10/01~2020/09/30	Walker TW
金融智慧技術	PI	2019/04/01~2022/03/30	E-Sun
嬰兒哭聲分析辨識系統建置開發	PI	2019/03/01~2021/09/30	生群
失智症早篩 App 開發	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)

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)

Special Issue Editor

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

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)

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 (2016), 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 (2016, 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

Selected Review Services

Journals

IEEE Transactions on Audio, Speech, and Language, IEEE Transaction on Affective Computing, IEEE Signal Processing Magazine, Journal of Computer Speech and Language, Journal of Speech Communication, IEEE Transaction on Biomedical Engineering, IEEE Transaction on Information Forensic and Security, IEEE Wireless Communication Magazine, IEEE Journal on Emerging and Selected Topics, Elsevier Digital Signal Processing, Communications of the ACM, Transactions on Multimedia Computing Communications and Applications, Journal of Language Resource and Evaluation, Journal of the Chinese Institute of Engineers

Conferences

The IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Annual Conference of International Speech Communication (Interspeech), The IEEE International Conference on Multimedia Expo (ICME), Annual Conference of Affective Computing and Intelligent Interaction (ACII), ACM International Conference on Multimodal Interaction (ICMI), The International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC),

European Signal Processing Conference (EUSIPCO), The International Conference on Pattern Recognition (ICPR), The IEEE International Symposium on Circuits and Systems (ISCS), APSIPA Annual Summit

Project Proposals

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: Instructor

EECS 303003: Probability

EE 6640: Speech Signal Processing

EE 3662: Digital Signal Processing Laboratory

EE 3660: Introduction to Digital Signal Processing

EE 3700: Introduction to Machine Learning

BAI 7001: Introduction of Statistics and Machine Learning (I)

BAI 7005: Introduction of Statistics and Machine Learning (II)

IMS 5031: Artificial Intelligence Innovation and Entrepreneurship

University of Southern California, USC: 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
東吳大學巨量資料管理學院 (Keynote)	可信賴人本 AI 運算	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	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	建構深度模型感知情緒項度與個人特質	Soochow, 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	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	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 (Keynote)	Multimodal Health Analytics Learning for Clinical Applications	VHGTC, 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	以人為本的人工智慧: 讓機器感知並解釋我們	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	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	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	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	深度學習應用於醫療行為政治媒體與電影分析	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	Human-Centered AI: Learning Human-centered Analytics from Multimodal Data	NCCU, Chiayi	2018/11/10
台灣精神醫學會 (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
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	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	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 (3 小時課程)	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, China	2018/05/24
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	ITRI, Hsinchu	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	IIS, Taipei	2018/03/17 2018/03/18
中國醫藥大學 (CMU)	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	CGMH, Taipei	2018/03/27
台灣人工智慧學校 (AIA)	機器智能與人類行為於醫療應用	Academia Sinica	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	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	Academia Sinica	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	Academia Sinica	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 研討會 (Keynote)	大數據時代的人類資訊行為研究現況與趨勢	NCCU, Taipei	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 (QUANTA)	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 (MOEA)	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	Academia Sinica	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	TWTC, Taipei	2016/11/30
Information Retrieval Workshop	Exploration in Human Affect Modeling: Engineering Advancements and Next Steps	Academia Sinica	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	Academia Sinica	2016/10/30
Bilateral Workshop between NTHU and Tohoku University GSIS	Deriving Human Behavior Analytics using Audio- Video Data: Challenges and Opportunities	Sendai, Japan	2016/10/25
台灣資料科學年會	人類行為大數據分析:資料科學如何應用在教育 及醫療領域	Academia Sinica	2017/07/14
Lorentz Workshop on Interdisciplinary Insights into Small Group and Team Dynamics	Behavioral Signal Processing	Lorentz Center, Leiden, Netherland	2016/06/29
Speech Processing Workshop (SWS)	A window into you: BSP effort for quantifying human behaviors across domains of health, education, and psychology	NTU, Taipei	2016/03/18
Bilateral Workshop between NTHU and Tohoku University GSIS	Cross-corpora Prosody-based Emotional Arousal Indicator and its Analysis in Affective Human Production-Perception Interplay	Hsinchu	2015/10/28
Taiwan-Japan Symposium on Psychological, Physiological, and Electro-Acoustics	Prosody-based Emotional Arousal Indicator and its Analysis in Affective Production-Perception Interplay	NTHU, Hsinchu	2015/10/23
Bilateral Workshop between NTHU and Tohoku University GSIS	Behavioral Signal Processing: An interdisciplinary effort in modeling human behaviors with applications in domains of behavior science	Sendai, Japan	2014/10/21

Speech Processing Workshop (SWS)	Understanding Dyadic Human Spoken Interactions Using Speech Processing Techniques: Case studies in Autism Spectrum Disorder (ASD) and behavioral Couple Therapy	NTPU, New Taipei City	2014/08/01
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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)

Selected 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=IwAR14YBXXrBD8laBAOhEUdN5BHFI-dDWJoDgRW5fYOdmSdiNatfvN3IGqrN8>

Human Behavioral Signal Processing

科普影片系列

- 下一步 · AI · NEXT · 愛
https://www.youtube.com/watch?v=hF0vrNgDPEE&fbclid=IwAR2SPuTsJ4Q6-7i0qXXST_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 淺力新星 (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/AI%E5%AF%A6%E7%8F%B%E8%A1%8C%E7%82%BA%E9%87%8F%E5%8C%96%E5%BB%BA%E6%A8%A1%E8%88%87%E5%AE%A2%E8%A7%80%E8%BE%A8%E8%AD%98%20%E6%9B%B4%E6%B7%B1%E5%85%A5%E4%BA%86%E8%A7%A3%E6%AF%8F%E4%B8%80%E5%80%8B%E4%BA%BA>

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=7&t=12s>

Health Analytics

Allianz AI-based health index (2021):

- 聯合新聞網 : <https://udn.com/news/story/7239/5959147>
- 工商時報 : <https://ctee.com.tw/news/finance/302553.html>
- 中時電子報 : <https://www.chinatimes.com/newspapers/20211214000302-260203?chdtv>
- ETToday 新聞雲 : <https://www.ettoday.net/news/20200716/1762593.htm>

Allianz AI-based health index (2020):

- 聯合新聞網 : https://udn.com/news/story/7239/4707027?from=udn-ch1_breaknews-1-cate6-news
- 中時電子報 : <https://www.chinatimes.com/realtimenews/20200716004262-260410?chdtv>
- 蘋果電子報 : <https://tw.appledaily.com/property/20200716/R5XQVGMRLVMN5JHSD7T4X67DI/>

Parkinson's automatic severity assessment from video:

- 華視新聞 <https://news.cts.com.tw/cts/life/201908/201908191971718.html>
- 中時電子報 <https://www.chinatimes.com/realtimenews/20190819002024-260405...>
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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!
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