

Yu Huang

PHD

Postdoc Associate at University of Florida, Gainesville, FL, USA

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Education

National Yang Ming Chiao Tung University

Department of Computer Science

PHD COMPUTER SCIENCE

June 2022

- Advisor: Dr. Vincent S. Tseng (National Yang Ming Chiao Tung University, Taiwan)
- Co-Advisor: Dr. Gary G. Yen (Oklahoma State University, U.S.A.)

National Kaohsiung First University of Science and Technology

Department of Information Management

BBA INFORMATION MANAGEMENT

June 2015

- Advisor: Dr. Chris K.W. Su
- Advisor: Dr. Wen-Chen Huang

Awards

IICM Ph.D. Dissertation Award	Institute of Information & Computing Machinery		2022
IEEE Ph.D. Dissertation Award	IEEE CIS Taipei Chapter		2022
TAAI Ph.D. Dissertation Award	Taiwanese Association for Artificial Intelligence	NTD \$ 5,000	2022
Award of Outstanding Students	National Yang Ming Chiao Tung University	NTD \$ 300,000	2021
Award of Outstanding Students	National Chiao Tung University	NTD \$ 300,000	2020
Award of Outstanding Students	National Chiao Tung University	NTD \$ 300,000	2019
Best Student Paper Award Runner Up	Springer ADMA 2019	EUR €100	2019
PAKDD 2019 & MCEA Joint Travel Grants	Macao Convention & Exhibition Association	USD \$ 400	2019
Award of Outstanding Students	National Chiao Tung University	NTD \$ 300,000	2018
Award of Outstanding Students	National Chiao Tung University	NTD \$ 150,000	2017
International Travelling Award of MOST	Ministry of Science and Technology, R.O.C	NTD \$ 50,000	2017
Award of Outstanding Students	National Chiao Tung University	NTD \$ 150,000	2016
Award of Outstanding Students	National Kaohsiung First University of Science and Technology	NTD \$ 2,000	2014

Research Interests

- Machine Learning for Healthcare
- Clinical Informatics
- Health Digital Twins
- Fair Artificial Intelligence
- Temporal & Spatio-temporal Data Analysis

List of Publications

JOURNAL PAPERS

- Huilin Tang, Ying Lu, Michael S Okun, William Troy Donahoo, Adolfo Ramirez-Zamora, Fei Wang, **Yu Huang**, Wei-han Chen, Beth A. Virnig, Jiang Bian, Serena Jingchuan Guo. Meta-Analysis of Association between Newer Glucose-Lowering Drugs and Risk of Parkinson's Disease. *Movement Disorders Clinical Practice* (in press).
- Yu Huang**, Jingchuan Guo, William T Donahoo, Zhengkang Fan, Ying Lu, Wei-Han Chen, Huilin Tang, Lori Bilello, Elizabeth A Shenkman, Jiang Bian. Developing A Fair Individualized Polysocial Risk Score (iPsRS) for Identifying Increased Social Risk of Hospitalizations in Patients with Type 2 Diabetes (T2D). Arxiv.
- Yu Huang**, Jingchuan Guo, Zhaoyi Chen, Jie Xu, William T Donahoo, Olveen Carasquillo, Hrushyang Adloori, Jiang Bian, Elizabeth A Shenkman. The impact of electronic health records (EHR) data continuity on prediction model fairness and racial-ethnic disparities. Arxiv
- Yu Huang**, Gary G. Yen, Vincent S. Tseng, 2022. Snippet Policy Network for Multi-class Varied-length ECG Early Classification. **IEEE Transactions on Knowledge and Data Engineering (TKDE)**. Vol. 35(6), pp. 6349 - 6361. June 2023 (SCI/EI 2021 IF = 9.235)
- Shao-Yu Yin, **Yu Huang**, Tien-Yu Chang, Shih-Fang Chang, Vincent S. Tseng, 2022. Continual Learning with Attentive Recurrent Neural Networks for Temporal Data Classification. **Neural Networks**, Vol. 158, pp.171-87, January 2023. (SCI/EI 2021 IF = 9.657)
- Yu Huang**, Hao Dai, Vincent S. Tseng, 2022. Periodic Attention-based Stacked Sequence to Sequence Framework for Long-term Travel Time Prediction. **Knowledge-based Systems**. Vol. 258, pp.109976. December 2022. (SCI/EI 2021 IF = 8.139)
- Yu Huang**, Gary G. Yen, Vincent S. Tseng, 2022. A Novel Constraint-based Knee-guided Neuroevolutionary Algorithm for Context-specific ECG Early Classification. **IEEE Journal of Biomedical and Health Informatics (JBHI)**. Vol. 26(11), pp. 5394-5405, August, 2022. (SCI/EI 2021 IF = 7.021)
- Yu Huang**, Gary G. Yen, Vincent S. Tseng, 2022. Snippet Policy Network V2: Knee-guide Neuroevolution for Multi-lead ECG Early Classification. **IEEE Transactions on Neural Networks and Learning Systems (TNNLS)**. Early Access. (SCI/EI 2021 IF = 14.255)
- Yu Huang**, Josh Jia-Ching Ying, Vincent S. Tseng, 2021. Spatio-Attention Embedded Recurrent Neural Network for Air Quality Prediction. **Knowledge-based Systems**, Vol. 233, pp. 107416, December, 2021. (SCI/EI 2021 IF = 8.139)
- Yu Huang**, Hui-Ju Wen, Yue-Liang Leon Guo, Tzu-Yin Wei, Wei-Cheng Wang, Shin-Fen Tsai, Vincent S. Tseng, Shu-Li Julie Wang. 2021. Prenatal exposure to air pollutants and childhood atopic dermatitis and allergic rhinitis adopting machine learning approaches: 14-year follow-up birth cohort study. **Science of the Total Environment**, Vol. 777, pp. 145982, July, 2021. (SCI/EI 2021 IF = 10.753)
- Yu Huang**, Josh Jia-Ching Ying, Philip S. Yu, Vincent S. Tseng, 2020. Dynamic Graph Mining for Multi-weight Multi-destination Route Planning with Deadlines Constraints. **ACM Transactions on Knowledge Discovery from Data (TKDD)**, Vol. 15(1), pp. 1-32, December, 2020. (SCI/EI 2021 IF = 4.157)

CONFERENCE PROCEEDINGS

- Yu Huang**, Lixia Yao, Zhengkang Fan, Jingchuan Guo, Jiang Bian. An Electronic Health Record-Based Algorithm for Predicting Systemic Lupus Erythematosus Flares: Integrating Clinical Factors and Social Determinants of Health. **America College of Rheumatology (ACR) Convergence 2023**. Accepted.
- Changyu Yin, **Yu Huang**, Zheng Feng, Ron Ison, Liliana Bell, Rulman Pebe, Roy Williams, Ray Opoku, Jiang Bian, Eric Rosenberg, Patrick Tighe. Clinical Team Networks on the Day of Surgery are Associated with Prolonged Postoperative Length of Stay in Older Adults receiving Hip Hemiarthroplasty. **Architecture of High Value Health Care National Conference 2023**. Accepted (Oral Presentation).
- Jie Xu, Rui Yin, **Yu Huang**, Hannah Gao, Yonghui Wu, Jingchuan Guo, Glenn E Smith, Steven T DeKosky, Fei Wang, Yi Guo, Jiang Bian. Identification of Outcome-Oriented Progression Subtypes from Mild Cognitive Impairment to Alzheimer's Disease Using Electronic Health Records. **AMIA 2023 Annual Symposium**. Accepted.
- Zheng Feng, **Yu Huang**, Inyoung Jun, Fang Li, Mattia Prosperi, Cui Tao, Jiang Bian. Estimating Dynamic Treatment Effects of Dual Antiplatelet Therapy (DAPT) on Bleeding and Ischemic Risk: Real-World Data Analysis. **AMIA 2023 Annual Symposium**. Accepted.
- Yu Huang**, Tianxiao Zhang, William T Donahoo, Lori Bilello, Elizabeth A Shenkman, Jingchuan Guo, Jiang Bian, 2023. Developing A Fair Individualized Polysocial Risk Score (iPsRS) for Identifying Increased Social Risk of Hospitalizations in

Patients with Type 2 Diabetes (T2D). **American Diabetes Association's (ADA) 83rd Scientific Sessions**. Accepted. (Oral Presentation)

Wei-Chan Chen, **Yu Huang**, William T Donahoo, Jiang Bian, Jingchuan Guo, 2023. Causal mediators underlying socioeconomic status (SES) disparities in hospitalization risk in patients with type 2 diabetes (T2D). **American Diabetes Association's (ADA) 83rd Scientific Sessions**. Accepted.

Yu Huang, Ju-Hui Tseng, Ching-Jui Hsiao, Hui-Mei Hung, Vincent S. Tseng, 2021. IPreMom: A Continual Learning-Based Image Rating Framework for Infant Precious Moments Capturing. In Proceedings of the 37th ACM/SIGAPP Symposium On Applied Computing.

Acquah Hackman, **Yu Huang**, Philippe Fournier-Viger, Vincent S. Tseng, 2021. Stable High Utility Itemset Mining. In Proceedings of the 23rd International Conference on Information Integration and Web-based Applications & Services, pp. 300-306.

Yu Huang, Chih-Ling Hsu, Vincent S. Tseng, 2020. PURL: Periodic User Representation Learning from Temporal Event Records for Personalized Health Management. In Proceedings of the IEEE International Conference on Big Data and Smart Computing, pp. 358-365.

Acquah Hackman, **Yu Huang**, Philip S. Yu, Vincent S. Tseng, 2019. Mining Emerging High Utility Itemsets over Streaming Database. In Proceedings of the International Conference on Advanced Data Mining and Applications, pp. 3-16.

Meng-Chieh Lee, **Yu Huang**, Josh Jia-Ching Ying, Chien Chen, Vincent S. Tseng, 2019. DeepIdentifier: A Deep Learning-Based Lightweight Approach for User Identity Recognition. In Proceedings of the International Conference on Advanced Data Mining and Applications, pp. 389-405.

Yu Huang, Meng-Chieh Lee, Vincent S. Tseng, Ching-Jui Hsiao, Chi-Chiang Huang, 2019. Robust Sensor-based Human Activity Recognition with Snippet Consensus Neural Networks. In Proceedings of the IEEE 16th International Conference on Wearable and Implantable Body Sensor Networks (BSN), pp. 1-4.

Chih Hsin Chou, **Yu Huang**, Chian Yun Huang, Vincent S. Tseng, 2019. Long-term Traffic Time Prediction using Deep Learning with Integration of Weather Effect. In **Proceedings of the 23rd Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)**, pp. 123-135.

Acquah Hackman, **Yu Huang**, Vincent S. Tseng, 2018. Mining Trending High Utility Itemsets from Temporal Transaction Databases. In Proceedings of the International Conference on Database and Expert Systems Applications, pp. 461-470.

Yu Huang, Bo-Hau Lin, Vincent S. Tseng, 2017. Efficient Multi-destinations Route Planning with Deadlines and Cost Constraints. In **Proceedings of the 18th IEEE International Conference on Mobile Data Management (MDM)**, pp. 228-233.

SUBMITTED MANUSCRIPTS

Yu-Ming Chen, **Yu Huang**, Hui-Nien Hung, Vincent S. Tseng, 2023. Early Multi-label Classification for Long-length and Varied-length Time Series. **ACM Transactions on Intelligent Systems and Technology**. Under Review.

Ting-En Chao, **Yu Huang**, Gary G. Yen, Vincent S. Tseng, 2023. Early Time Series Anomaly Prediction with Multi-Objective Optimization. **IEEE Transactions on Emerging Topics in Computational Intelligence**. Under Revision.

Contributed Presentations

Yu Huang, June 24, 2023. Developing A Fair Individualized Polysocial Risk Score (iPsRS) for Identifying Increased Social Risk of Hospitalizations in Patients with Type 2 Diabetes (T2D), American Diabetes Association's (ADA) 83rd Scientific Sessions, San Diego, California

Yu Huang, February 27-28, 2023. Care coordination and patient safety outcome: a network study: Celebration of Research 2023, University of Florida, Gainesville, Florida

Yu Huang, Ju-Hui Tseng, Ching-Jui Hsiao, Hui-Mei Hung, Vincent S. Tseng, 2021. A Continual Learning-Based Image Rating Framework for Infant Precious Moments Capturing. Oral presentation: the 37th ACM/SIGAPP Symposium on Applied Computing.

Chih Hsin Chou, **Yu Huang**, Chian Yun Huang, Vincent S Tseng. 2019. Efficient multi-destinations route planning with deadlines and cost constraints. Oral presentation: the 23rd Pacific-Asia Conference on Knowledge Discovery and Data Mining, Macau, China.

Yu Huang, Bo-Hau Lin, Vincent S Tseng. 2017. Efficient multi-destinations route planning with deadlines and cost constraints. Oral presentation: the 2017 18th IEEE International Conference on Mobile Data Management, Daejeon, South Korea.

Yu Huang. 2016. A teaching course of Advanced Machine Learning Analytics Platforms. Industrial Technology Research Institute, Hsinchu City, R.O.C.

Project Experience

University of Florida AI Generated Report Addressing Disparities of Care In Lung Cancer Patients

GENENTECH USA, INC.

Mar. 2023 - Present

ROLE: RESEARCHER

Contributions: Report Revision, Methodology Design, Methodology Implementation

- Proposed a ML-based pipeline for lung cancer prediction using electronic health records.

Disease Progression Subphenotyping

UNIVERSITY OF FLORIDA

Feb. 2023 - Present

ROLE: TEAM LEADER

Contributions: Proposal & Report Writing, Methodology Design, Data Curation, Methodology Implementation

- Proposed a GNN-based pipeline for identifying disease progression subphenotyping using electronic health records.

Identifying Social Risks for Type 2 Diabetes (T2D) Hospitalization

UNIVERSITY OF FLORIDA

Dec. 2022 - Present

ROLE: TEAM LEADER

Contributions: Proposal & Report Writing, Methodology Design, Data Curation, Methodology Implementation

- Proposed a ML-based pipeline for creating polysocial risk scores using social determinants of health (SDOH) to identify individuals at a higher social risk and SDOH associated with their T2D hospitalization, (2) assessing and mitigating algorithmic fairness in the AI/ML models.

Modeling Care Coordination for Patient Safety

UNIVERSITY OF FLORIDA

Dec. 2022 - Present

ROLE: TEAM LEADER

Contributions: Report Writing, Methodology Design, Data Curation, Methodology Implementation

- Proposed a ML-based pipeline based on network science and graph neural networks to model care coordination for patient safety outcomes (e.g., length of stay, readmission, death).

Development of Advanced Time Series Machine Learning Core Techniques and Integrated Tools

Advisor: Dr. Vincent S. Tseng

MINISTRY OF SCIENCE AND TECHNOLOGY, R.O.C.

Dec. 2021 - Jul. 2022

ROLE: RESEARCHER

Contributions: Proposal & Report Writing, Methodology Design, Data Curation, Methodology Implementation

- Proposed a series of advanced machine learning and data mining methods for solving different time series-based problems.
- Implemented the proposed early time series classification algorithms.
- Evaluated the proposed algorithms on different-domain public datasets, including ECG classification, Human activity recognition, and device anomaly classification.

Semi-supervised/Unsupervised Learning for AI Image Process and AI for Image Segmentation

Advisor: Dr. Vincent S. Tseng

COMPAL ELECTRONICS, INC.

Dec. 2020 - Dec. 2021

ROLE: TECHNICAL LEADER

Contributions: Proposal & Report Writing, Conceptualization, Methodology Design, Validation

- Developed state-of-the-art unsupervised learning techniques (e.g., Partition Confidence Maximisation, Information Maximizing Self-Augmented Training, Invariant Information Clustering) to improve deep learning-based applications by CEI.
- Developed state-of-the-art Semi-supervised learning techniques (e.g., PiModel, Fixmatch, Mean Teacher) to improve deep learning-based applications by CEI.

Precision Preventive Medicine of Atopic Dermatitis and Asthma in Maternal and Child Cohorts - The Establishment and Application of Personalized Predictive Model using Artificial Intelligence Method

*Advisor: Dr. Shu-Li Julie Wang
Dr. Vincent S. Tseng*

NATIONAL HEALTH RESEARCH INSTITUTES, R.O.C.

Sep. 2018 - Jul. 2021

ROLE: TECHNICAL LEADER

Contributions: Report Writing, Conceptualization, Methodology Design, Data Curation, Validation

- Proposed a machine learning-based framework for predicting children allergies.
- Analyzed heterogeneous attributes to the allergic diseases.
- The details of the proposed framework could be found in the paper "Prenatal exposure to air pollutants and childhood atopic dermatitis and allergic rhinitis adopting machine learning approaches: 14-year follow-up birth cohort study".

Multi-Task and Continuous Learning Techniques for Human Activity Recognition

*Advisor: Dr. Vincent S. Tseng
Dec. 2019 - Nov. 2020*

COMPAL ELECTRONICS, INC.

ROLE: TECHNICAL LEADER

Contributions: Proposal & Report Writing, Conceptualization, Methodology Design, Validation

- Proposed a CenterNet-based framework for baby face-covered detection, which is embedded into a commercialized baby monitoring device.
- Proposed a continual learning-based framework for baby precious moments capturing application, which is deployed for baby precious moments capturing.

Early Prediction and Biomarker Discovery of Stroke

*Advisor: Dr. Vincent S. Tseng
Feb. 2019 - Aug. 2020*

NATIONAL INSTITUTES OF HEALTH, U.S.A.

ROLE: TECHNICAL LEADER

Contributions: Conceptualization, Methodology Design, Validation

- Proposed a multi-stage early classification framework for stroke diagnosis.
- Implemented an APP for early stroke detection.

Exploring Urban Air Pollution and Health Model based on Data Mining Techniques

*Advisor: Dr. Vincent S. Tseng
Oct. 2019 - Feb. 2020*

ASUSTEK COMPUTER INC.

ROLE: TECHNICAL LEADER

Contributions: Report Writing, Conceptualization, Methodology Design, Data Curation, Validation

- Proposed a deep learning-based model for air quality index forecasting in Taiwan.
- Analyzed the correlations between air pollutants and asthma patients in Taiwan.

Multi-Modality and Continuous Learning Techniques for Human Activity Recognition

*Advisor: Dr. Vincent S. Tseng
Sep. 2018 - Aug. 2019*

COMPAL ELECTRONICS, INC.

ROLE: TECHNICAL LEADER

Contributions: Proposal & Report Writing, Conceptualization, Methodology Design, Validation

- Developed a deep learning-based framework for video-based human activity recognition.
- Proposed a multi-modality framework for improving the performance of human activity recognition tasks.
- Developed a human activity recognition application based on continual learning concepts.

Personalized Human Health Risk Evaluation System

*Advisor: Dr. Vincent S. Tseng
Mar. 2018 - Feb. 2019*

JOIUP TECHNOLOGY INC.

ROLE: TECHNICAL LEADER

Contributions: Conceptualization, Methodology Design, Validation

- Analyzed the correlations between personal exercise records and environmental factors.
- Proposed a pattern mining-based framework for personal health state prediction according to their exercise records.
- The details of this proposed framework could be found in the paper "PURL: Periodic User Representation Learning from Temporal Event Records for Personalized Health Management".

Analytical Techniques Development of Physiological Signal with Wearable Devices

Advisor: Dr. Vincent S. Tseng

COMPAL ELECTRONICS, INC.

Sep. 2017 - Aug. 2018

ROLE: TECHNICAL LEADER

Contributions: Report Writing, Conceptualization, Methodology Design, Methodology Implementation, Validation

- Proposed a deep learning-based framework for sensor-based activity recognition.
- The details of this proposed framework could be found in the paper "Robust Sensor-based Human Activity Recognition with Snippet Consensus Neural Networks".
- Proposed a novel framework for Photoplethysmograms(PPG) abnormal signal detection.

Dynamic Context-Aware Recommendation Techniques based on Multi-Domain Information

Advisor: Dr. Vincent S. Tseng

INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, R.O.C.

Apr. 2017 - Dec. 2017

ROLE: FULL STACK ENGINEER

Contributions: Methodology Design, Methodology Implementation, Demo System Implementation

- Developed a simulation model to generate synthesized data for self-service store.
- Proposed a context-aware interactive algorithm for relative products recommendation.
- Implemented a demo system to demonstrate the user behaviours in the self-service store.

Cloud and Big Data Computing Platforms for M2M Communications Systems

Advisor: Dr. Vincent S. Tseng

MINISTRY OF SCIENCE AND TECHNOLOGY, R.O.C.

Jun. 2016 - Feb. 2017

ROLE: FULL STACK ENGINEER

Contributions: Methodology Design, Methodology Implementation, Demo System Implementation

- Proposed a novel algorithm for solving multi-destination route planning with deadlines and cost constraints problem.
- Implemented a demo navigation system based on the proposed algorithm.

Survey and Analysis for Advanced Machine Learning Analytics Platforms

Advisor: Dr. Vincent S. Tseng

INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE, R.O.C.

May 2016 - Dec. 2016

ROLE: RESEARCHER

Contributions: Investigation

- Provided a teaching course on using machine learning tools at ITRI.

Low-Energy Bluetooth-Based Indoor-navigation System Development

Advisor: Dr. Wen-Chen Huang

SUNFAR COMPUTER CO.,LTD.

Jun. 2014 - Jun. 2015

ROLE: FULL STACK ENGINEER

Contributions: Methodology Design, Methodology Implementation, Mobile Application Implementation

- Designed and implemented an indoor-navigation app based on low-energy bluetooth.
- Implemented the machine learning-based algorithms into the indoor-navigation system.

Current Mentored Students

Yongqiu Li	PhD Student	University of Florida	2023-present
Hongyu Chen	PhD Student	University of Florida	2023-present
Leyang Sun	PhD Student	University of Florida	2023-present
Tiancheng Zhou	PhD Student	University of Florida	2023-present
Hrushyang Adloori	OPS Master Student	University of Florida	2023-2024
Hsin-Yueh Lin	OPS Master Student	University of Florida	2023-2024

Former Mentored Students

Wen-Huei Lo	Master Student	National Yang Ming Chiao Tung University	2020-2022
Ting-En Chao	Master Student	National Yang Ming Chiao Tung University	2020-2022
Meng-Chen Lin	Master Student	National Yang Ming Chiao Tung University	2020-2022
Ju-Hui Tseng	Master Student	National Yang Ming Chiao Tung University	2019-2021
Wei Cheng Wang	Master Student	National Yang Ming Chiao Tung University	2019-2021
Shao-Yu Yin	Master Student	National Chiao Tung University	2018-2020
Meng-Chieh Lee	Master Student	National Chiao Tung University	2017-2020
Chih Hsin Chou	Master Student	National Chiao Tung University	2016-2018
Dinh Nguyen Dan Chau	Undergraduate Student	National Yang Ming Chiao Tung University	2020-2021
Sandy Wu	Undergraduate Student	National Yang Ming Chiao Tung University	2020-2021
Yu Ming Chen	Undergraduate Student	National Chiao Tung University	2019-2020
William Chen	Undergraduate Student	National Chiao Tung University	2019-2020
Yan Cen Lin	Undergraduate Student	National Chiao Tung University	2018-2019
Wei Cheng Wang	Undergraduate Student	National Chiao Tung University	2018-2019

Professional Services

JOURNAL SERVICES

Reviewer	IEEE Transactions on Artificial Intelligent (TAI)
Reviewer	IEEE Transactions on Cybernetics (TCYB)
Reviewer	IEEE Transactions on Evolutionary Computation (TEVC)
Reviewer	IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI)
Reviewer	IEEE Transactions on Intelligent Transportation Systems (T-ITS)
Reviewer	IEEE Transactions on Knowledge and Data Engineering (TKDE)
Reviewer	IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
Reviewer	IEEE Computational Intelligence Magazine (CIM)
Reviewer	IEEE Journal of Biomedical and Health Informatics (JBHI)
Reviewer	IEEE Internet of Things Journal (IoT-J)
Reviewer	ACM Transactions on Intelligent Systems and Technology (TIST)
Reviewer	ACM Transactions on Knowledge Discovery from Data (TKDD)
Reviewer	ACM Transactions on Management Information Systems (TMIS)
Reviewer	Applied Intelligence
Reviewer	Information Sciences
Reviewer	World Scientific Annual Review of Artificial Intelligence
Reviewer	Journal of Clinical and Translational Science

CONFERENCE SERVICES

PC Member	AAAI Conference on Artificial Intelligence (AAAI)	2024
PC Member	European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD)	2023
PC Member	ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)	2023
PC Member	AAAI Conference on Artificial Intelligence (AAAI)	2023
Reviewer	International Conference on Data Science and Advanced Analytics (DSAA)	2022
External Reviewer	ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)	2022
Reviewer	International Conference on Database Systems for Advanced Applications (DASFAA)	2022
PC Member	AAAI Conference on Artificial Intelligence (AAAI)	2022
External Reviewer	IEEE International Conference on Data Mining (ICDM)	2021

PROFESSIONAL MEMBERSHIPS

Member	American Medical Informatics Association (AMIA)
Member	Association for Computing Machinery (ACM)
Member	Institute of Electrical and Electronics Engineers (IEEE)
Member	Institute of Information and Computing Machinery (IICM)
Member	Taiwanese Association for Artificial Intelligence (TAAI)

Professional Skills

- Expertise in multiple programming languages and script languages, such as Python, Java, JavaScript, and HTML
- Proficient in different machine learning and deep learning frameworks, such as Scikit-Learn, PyTorch, and TensorFlow
- Experienced in applied machine learning and data mining algorithms for developing different applications
- Experienced in interdisciplinary collaborations with different institutes
- Good communication skills, strong motivation, respect for laboratory members, ability to advance a project productively and work independently

References

Jiang Bian

PROFESSOR

- Department of Health Outcomes and Biomedical Informatics
- University of Florida, U.S.A.
- Email: bianjiang@ufl.edu

Gary G. Yen

PROFESSOR, IEEE FELLOW, IET FELLOW

- School of Electrical and Computer Engineering
- Oklahoma State University in Stillwater, U.S.A.
- Email: gyen@okstate.edu

Vincent S. Tseng

CHAIR PROFESSOR, IEEE FELLOW

- Department of Computer Science
- National Yang Ming Chiao Tung University, R.O.C.
- Email: vtseng@cs.nctu.edu.tw

Josh Jia-Ching Ying

ASSOCIATE PROFESSOR

- Department of Management Information Systems
- National Chung Hsing University, R.O.C.
- Email: jcying@nchu.edu.tw