Curriculum Vitae

Vincent S. Tseng Ph.D.

Chair Professor, Department of Computer Science and Information Engineering

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Bio Sketch

Vincent S. Tseng is currently a Chair Professor at Department of Computer Science in National Yang Ming Chiao Tung University (NYCU). He served as the founding director for Institute of Data Science and Engineering in NYCU during 2017-2020, chair for IEEE CIS Tainan Chapter during 2013-2015 and the president of Taiwanese Association for Artificial Intelligence during 2011-2012. He also acted as the director for Institute of Medical Informatics of National Cheng Kung University during 2008 and 2011. Dr. Tseng received his Ph.D. degree with major in computer science from National Chiao Tung University, Taiwan, in 1997. After that, he joined Computer Science Division of EECS Department in University of California at Berkeley as a postdoctoral research fellow during 1998-1999. He has a wide variety of research interests covering data mining, big data analytics, machine learning, biomedical informatics, mobile and Web technologies. He has published more than 400 research papers in referred journals and conferences as well as 15 patents (held and filed). By Google Scholar, his publications have been cited by more than 13,600 times with H-Index 61. He has been on the editorial board of a number of top journals including IEEE Transactions on Knowledge and Data Engineering, IEEE Journal of Biomedical and Health Informatics, ACM Transactions on Knowledge Discovery from Data, Knowledge Discovery and Data Mining, etc. He has also served as chairs/program committee members for a number of premier international conferences related to data mining and intelligent computing, including KDD, ICDM, SDM, PAKDD, ICDE, CIKM, IJCAI, etc. In recent years, he has also been serving to oversee the architect on Big Data/AI technologies and applications for the governmental and industrial units in Taiwan. Dr. Tseng has received a number of prestigious awards, including Outstanding Research Award (2019 & 2015) by Ministry of Science and Technology Taiwan, 2019 ACM Distinguished Scientist Member (for Outstanding Scientific Contributions to Computing), 2018 Outstanding I.T. Elite Award, 2018 FutureTech Breakthrough Award, and 2014 K. T. Li Breakthrough Award. He is also a Fellow of IEEE and Distinguished Member of ACM.

Education Background

1997	National Chiao Tung University, Taiwan	Ph. D. in Computer and Information Engineering
1990	National Chiao Tung University, Taiwan	M.S. in Computer and Information Engineering
1988	National Chiao Tung University, Taiwan	B.S. in Computer and Information Engineering

Employment and Related Experiences

- 2020 Now Chair Professor, Department of Computer Science, National Yang Ming Chiao Tung University
- 2017 2020 Founding Director for Institute of Data Science and Engineering, National Chiao Tung University
- 2015 2020 Distinguished Professor, Department of Computer Science, National Chiao Tung University, Taiwan
- 2011 2014 Distinguished Professor, Department of Computer Science and Information Engineering, National Cheng Kung University Taiwan
- 2008 2011 Director, Institute of Medical Informatics, NCKU Taiwan
- 2007 2011 Professor, Department of Computer Science and Information Engineering, National Cheng Kung

University, Taiwan

- 2004 2007 Director, Department of Medical Informatics, NCKU Hospital Taiwan
- 2003 2007 Associate Professor, Department of Computer Science and Information Engineering, NCKU Taiwan
- 1999 2003 Assistant Professor, Department of Computer Science and Information Engineering, NCKU Taiwan
- 1998 1999 Postdoctoral Researcher, EECS Dept, University of California at Berkeley, USA

Research Specialty

- Data Mining/Big Data Techniques and Applications
- Artificial Intelligence/Machine Learning
- Biomedical and Health Informatics
- Mobile and Web Techniques
- Social Network Analysis and Applications

Publications

- Has published more than 400 papers in referred journal and conferences, as well as 15 patents (held and filed). Has received more than 13,600 citations (H-Index:61) by Google Scholar.
 - Detailed publication list: http://people.cs.nctu.edu.tw/~vtseng

Honorary and Awards

- 2021 IICM Medal of Honor
- 2021 IEEE Fellow
- 2020 World Top 2% Scientist (for both Annual & Lifetime Contributions)
- 2020 Best Paper Award, 2020 Int'l Conference on Pervasive AI Fintech and Business Intelligence Track
- 2020 Best Paper Award, Int'l Computer Symposium, Workshop on Big Dat
- 2020 Supervision Award for Best Master Thesis, Institute of Information and Computing Machinery, Taiwan
- 2019 Outstanding Research Award by Ministry of Science and Technology Taiwan
- 2019 ACM Distinguished Scientist Member
- 2018 FutureTech Breakthrough Award by Ministry of Science and Technology Taiwan
- 2018 Outstanding I.T. Elite Award, Taiwan
- 2018 Best Application Paper Award, Int'l Conf. SCIS-ISIS
- 2015 Outstanding Research Award by Ministry of Science and Technology Taiwan
- 2014 K. T. Lee Breakthrough Award
- 2014 Distinguished Electrical Engineering Professorship Award, Chinese Institute of Electrical Engineering
- 2014 Best Paper Award, 10th Int'l Conference on Advanced Data Mining and Applications (ADMA 2014)
- 2014 Supervision Award for Best PhD Thesis, Taiwanese Association for Artificial Intelligence
- 2014 Supervision Award for Best PhD Thesis, Institute of Information and Computing Machinery, Taiwan
- 2014 Second Prize, ET Big Data Contest
- 2013 Supervision Award for Best Master Thesis, Institute of Information and Computing Machinery, Taiwan
- 2012 Second Prize, Nokia Mobile Data Challenge
- 2012 Best Paper Award, 2012 Int'l Conf. Technologies and Applications for Artificial Intelligence
- 2012 Supervision Award for Best PhD Thesis, Institute of Information and Computing Machinery, Taiwan
- 2012 Supervision Award for Best PhD Thesis, Taiwanese Association for Artificial Intelligence
- 2011 Supervision Award for Best Master Thesis, Institute of Information and Computing Machinery, Taiwan
- 2011 Microsoft Research Award
- 2011 Merit Paper Award, 2011 Int'l Conf. Technologies and Applications for Artificial Intelligence
- 2010 Supervision Award for Best Master Thesis, Institute of Information and Computing Machinery, Taiwan
- 2010 Best Paper Award, ACM Int'l Conf. on GIS-LBSN
- 2009 Best Paper Award, National Symposium on Security
- 2008 Supervision Award for Best PhD Thesis, Taiwanese Association for Artificial Intelligence
- 2006 Supervision Award for Best PhD Thesis, Taiwanese Association for Artificial Intelligence

Professional Activities

- 2020 Now Steering Committee Chair, Pacific-Asia Knowledge Discovery and Data Mining (PAKDD)
- 2016 Now Director, Center for Big Data Technologies and Innovations
- 2013 Now Director, Big Data Technology Platform Program, Ministry of Science and Technology, Taiwan
- 2011 Now Technical Committee Member, Ministry of Science and Technology, Ministry of Health and welfare, Ministry of Economic Affairs, Taiwan
- 2011 Now Technical Committee Member, Ministry of Science and Technology, Taiwan
- 2014 Now Technical Committee Member, Taiwan Cloud Computing Association
- 2019 2020 Vice Chair, Steering Committee, Pacific-Asia Knowledge Discovery and Data Mining (PAKDD)
- 2013 2015 Chair, IEEE CIS(Computational Intelligence Society) Tainan Chapter
- 2013 2016 IEEE Data Mining Technical Committee Member
- 2011 2012 President, Taiwanese Association for Artificial Intelligence
- 2011 2012 Vice Chair, IEEE CIS Chapter in Tainan Section
- 2012 Now Board Member, Taiwanese Association for Medical Informatics
- 2010 Now Board Member, IEEE Tainan Section
- 2009 2010 Board Member, HL-7 Taiwan Society
- 2007 2008 Board member, Taiwan Society on Bioinformatics

Editorial Board

- 2021 Now Associate Editor, IEEE Computational Intelligence Magazine
- 2016 Now Associate Editor, Knowledge and Information Systems (KAIS)
- 2014 Now Associate Editor, IEEE Journal on Biomedicine and Health Informatics
- 2016 2019 Associate Editor, Data Mining and Knowledge Discovery
- 2012 2020 Associate Editor, ACM Transactions on Knowledge Discovery from Data
- 2012 2017 Associate Editor, IEEE Transactions on Knowledge and Data Engineering
- 2012 2016 Associate Editor-in-Chief, Taiwanese Journal of Medical Informatics
- 2011 Now Associate Editor, Journal of Information Science and Engineering
- 2006 Now Associate Editor, Int'l Journal of Data Mining and Bioinformatics

Organizing Committee of Conferences (Selected in recent five years)

Steering/Advisory Committee

- Steering Committee Chair, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD)
- Steering Committee and Vice Chair, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD)
- Steering Committee, IEEE Int'l Conference on Data Science and Advanced Analytics (DSAA)
- Steering Committee, Int'l Conf. Intelligence Science and Big Data Engineering (IScIDE)
- Advisory Committee, 2014 Int'l Conf. on Technologies and Applications for Artificial Intelligence (TAAI'14)
- Advisory Committee, 2014 Int'l Conf. Japanese Society for Artificial Intelligence (JSAI'14)
- Advisory Committee, 2013 Int'l Conf. on Technologies and Applications for Artificial Intelligence (TAAI'13)
- Advisory Committee, 2012 Int'l Conf. on Innovations in Bio-Inspired Computing and Applications

Program Committee/Conference Chair (Selected)

- 2022 Senior Program Committee, 28th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'22)
- 2022 Senior Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'22)
- 2021 Program Chair, 26th IEEE Int'l Conference on Database Systems for Advanced Applications (DASFAA'21)
- 2021 Senior Program Committee, 27th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'21)
- 2021 Senior Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'21)
- 2021 Area Chair, 19th IEEE International Conference on Data Mining (ICDM'21)
- 2020 General Chair, 1st Int'l Conference on Pervasive Artificial Intelligence (ICPAI'20)
- 2020 Program Chair, 7th IEEE Int'l Conference on Data Science and Advanced Analytics (DSAA'20)
- 2020 Area Chair, 20th IEEE International Conference on Data Mining (ICDM'20)
- 2020 Senior Program Committee, 26th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'20)
- 2020 Senior Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'20)
- 2019 Area Chair, 19th IEEE International Conference on Data Mining (ICDM'19)
- 2019 Senior Program Committee, 25th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'19)

- 2019 Senior Program Committee, 28th ACM Int'l Conf. on Information and Knowledge Management (CIKM'19)
- 2019 Senior Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'19)
- 2018 Program Co-Chair, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'18)
- 2018 Area Chair, 18th IEEE International Conference on Data Mining (ICDM'18)
- 2018 Program Committee, 24th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'18)
- 2017 Area Chair, 17th IEEE International Conference on Data Mining (ICDM'17)
- 2017 Senior Program Committee, 23th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'17)
- 2017 Senior Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'17)
- 2016 Area Chair, 16th IEEE International Conference on Data Mining (ICDM'16)
- 2016 Senior Program Committee, 22th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'16)
- 2016 Program Chair, IEEE International Conference on Big Data Intelligence and Computing (DataCom'16)
- 2016 Senior Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'16)
- 2015 General Chair, 2015 ASE Int'l Conference on Big Data
- 2015 Area Chair, 15th IEEE International Conference on Data Mining (ICDM'15)
- 2015 Program Committee, 20th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'14)
- 2015 Senior Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'15)
- 2014 Program Chair, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'14)
- 2014 Area Chair, 14th IEEE International Conference on Data Mining (ICDM'14)
- 2014 Senior Program Committee, IEEE Int'l Conf. on Big Data
- 2014 Program Committee, 20th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'14)
- 2014 Program Committee, IEEE Int'l Conf. on Bioinformatics and Biomedicine (BIBM'14)
- 2014 Program Committee, IEEE Int'l Conf. on Mobile Data Management (MDM'14)
- 2014 Program Committee, Int'l Conf. on Database Systems for Advanced Applications (DASFAA'14)
- 2013 Program Co-Chair, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'13)
- 2013 General Co-Chair, AI Forum
- 2013 Senior Program Committee, Int'l Conf. Information and Knowledge and Management (CIKM'13)
- 2013 Senior Program Committee, Int'l Joint Conf. on Artificial Intelligence (IJCAI'13)
- 2013 Program Committee, 19th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'13)
- 2013 Program Committee, 13th IEEE International Conference on Data Mining (ICDM'13)
- 2013 Program Committee, IEEE Int'l Conf. on Bioinformatics and Biomedicine (BIBM'13)
- 2013 Program Committee, IEEE Int'l Conf. on Mobile Data Management (MDM'13)
- 2013 Program Committee, Int'l Conf. on Database Systems for Advanced Applications (DASFAA'13)
- 2013 Program Committee, IEEE Int'l Conf. on Granular Computing (Grc'13)
- 2012 General Chair, Int'l Conf. on Technologies and Applications for Artificial Intelligence (TAAI'12)
- 2012 General Chair, AI Forum
- 2012 Program Committee, 18th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining (KDD'12)
- 2012 Program Committee, 12th IEEE International Conference on Data Mining (ICDM'12)
- 2012 Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'12)
- 2012 Program Committee, IEEE Int'l Conf. on Bioinformatics and Biomedicine (BIBM'12)
- 2012 Program Committee, IEEE Int'l Conf. on Granular Computing (Grc'12)
- 2012 Program Committee, IEEE Int'l Conf. on Mobile Data Management (MDM'12)
- 2012 Publicity Chair, IEEE Int'l Conference on Fuzzy Systems (FUZZ-IEEE'13)
- 2012 Program Committee, Int'l Conf. on Database Systems for Advanced Applications (DASFAA'12)
- 2011 General Chair, Int'l Conf. on Technologies and Applications for Artificial Intelligence (TAAI'11)
- 2011 General Chair, AI Forum
- 2011 Program Committee, 11th IEEE International Conference on Data Mining (ICDM'11)
- 2011 Program Committee, IEEE Int'l Conf. on Bioinformatics and Biomedicine (BIBM'11)
- 2011 Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'11)
- 2011 Program Committee, IEEE Int'l Conf. on Mobile Data Management (MDM'11)
- 2011 Chair, IEEE BIBM'11 Int'l Workshop on Data Mining for Biomarker Discovery
- 2011 Program Committee, IEEE Int'l Conf. on Granular Computing (Grc'11)
- 2010 Chair, Int'l Workshop on Biomedical Informatics
- 2010 Program Committee, IEEE Int'l Conf. on Bioinformatics and Biomedicine (BIBM'10)
- 2010 Program Committee, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'10)
- 2010 Chair, IEEE BIBM'10 Int'l Workshop on Data Mining for Biomarker Discovery
- 2010 Program Committee, IEEE Int'l Conf. on Granular Computing (Grc'10)
- 2010 Program Committee, 23th IEEE Int'l Conf. Computer-Based Medical Systems (CBMS)
- 2010 Program Committee, IEEE Int'l Conf. on Mobile Data Management (MDM'10)
- 2009 Track Chair, I-SPAN'09 Track on Biomedical Informatics

- 2009 Tutorial Chair, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD'09)
- 2009 Chair, IEEE BIBM'09 Int'l Workshop on Data Mining for Biomarker Discovery
- 2009 Program Committee, SIAM Int'l Conf. on Data Mining (SDM'09)
- 2009 Program Committee, 22th IEEE Int'l Conf. Computer-Based Medical Systems (CBMS)

Keynote Speeches and Invited Talks

- Keynote Speech, 34th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE), Malaysia, 2021
- Keynote Speech, 15th International Conference on Advanced Data Mining and Applications, Dalian, China, 2019
- Invited Speech, Asian Workshop on Smart Sensor System, Munahata, Japan, 2019
- Invited Speech, ACM SIGKDD China Chapter Session, London, UK, 2018
- Keynote Speech, Asian Conference on Machine Learning, Hamilton, New Zealand, 2016
- Invited Speech, Microsoft Research Asia Faculty Summit, Seoul, Korea, 2016
- Keynote Speech, ACM SIGKDD Workshop-BigMine'15, Sydney, Australia, 2015
- Keynote Speech, Multidisciplinary International Social Networks Conference, Taiwan, 2014
- Invited Speech, CIE-DFW 25th Anniversary Convention, Dallas, USA, 2014
- Keynote Speech, International Conference on Advanced Information Technologies, Taiwan, 2013
- Invited Speech, Int'l Conf. Intelligence Science and Big Data Engineering, 2013
- Keynote Speech, Annual Conf. on Artificial Intelligence, Nanjing, China, 2012
- Keynote Speech, The E-Learning and Information Technology Symposium, Taiwan, 2012
- Keynote Speech, Pacific-Asia Conf. Knowledge Discovery and Data Mining (PAKDD), Int'l Workshop on Data Mining for Healthcare Management, Malaysia, 2012.
- Keynote Speech, The E-Learning and Information Technology Symposium (EITS), Taiwan, 2012
- Invited Speech, IEEE Int'l Conf. on Mobile Data Management (MDM'11), Sweden, June, 2011.
- Invited Speech, Microsoft Research Summit, Shanghai, October, 2010.
- Invited Speech, European Union FP7 BISON Annual Meeting, Germany, May, 2010.
- Invited Speech, 7th Annual Emerging Information Technology Conference, Princeton, USA, July, 2007.

Project Experiences

 Has conducted more than 100 research projects (PI & Co-PI) funded by Ministry of Science and Technology Taiwan (National Science Council previously) and various governmental/industrial units.