

Professor Longbing Cao
Distinguished Chair in AI
ARC Future Fellow (Level 3)
School of Computing
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Biography

Prof Cao is the Distinguished Chair in AI and an ARC Future Fellow (Level 3) at Macquarie. He was the Founding Director of the UTS Advanced Analytics Institute and had been a full professor at UTS since 2009. He holds PhDs in AI and computing science, Msc in communication, and bachelor in electrical engineering.

Prof Cao is a pioneering researcher in AI, data science, and advanced analytics. His research efforts have focused on fundamentals and innovations for AI and intelligent systems, pattern recognition, data science and analytics, shallow-to-deep machine learning, behaviour, business and social informatics, and applied statistics. Since 2005, he has made over 400 publications, including a large number of sole/first-authored monographs and articles.

His research leadership and socioeconomic benefits have been recognized by an individual Eureka Prize, ACM Distinguished Scientist, and impact cases mentioned in media, and government and OECD reports.

Founding Director of the UTS Advanced Analytics Institute, the first data science initiative in Australia, Prof Cao has been promoting data science and analytics research, education and development for decades in both academia and industry. He established world-first research degrees at UTS (Master of Analytics (Research) and PhD Thesis: Analytics). In 2009, he established an annual Big Data Summit, the first such forum in Australia, which provided a platform for bridging the gap between academia, industry, and government.

With a CTO experience, enterprise innovation has been his focus for actionable enterprise AI and data science. His high-quality original research has helped solve real-world industry problems, improved business productivity and delivered significant socio-economic benefits. He and his team of researchers have collaborated with government and business organizations in Australia and overseas in a range of fields, including government services, finance, insurance, banking, telecommunications, transport and e-commerce.

Prof Cao has served as the lead general chair of KDD2015, the first edition in Australia. His many initiatives include, in 2013, founding the IEEE Task Force on Data Science and Advanced Analytics, the IEEE Task Force on Behavior, Economic and Socio-cultural Computing (BESC), and the ACM SIGKDD Australia-New Zealand Chapter. He is/was the Founding Editor in Chief of Int. J. of Data Science and Analytics (JDASA, Springer-Nature), the series editor of the Book Series on Data Analytics (Springer), the Associate EiC and EiC of IEEE Intelligent Systems, the oldest AI magazine in IEEE, the Steering Committee Chairs of PAKDD and DSAA.

Qualifications

Pattern Recognition and Intelligent Systems, PhD, Graduate University of Chinese Academy of Sciences
Computing Science, PhD, University of Technology Sydney

Employment

Distinguished Chair in Artificial Intelligence

School of Computing
Macquarie University
7 Jun 2023 → present

ARC Future Fellow (Level 3)

Australian Research Council
Canberra, Australia
1 Jan 2020 → 1 Jan 2024

Founding Director, Advanced Analytics Institute

University of Technology Sydney
Sydney, Australia
1 Jan 2011 → 1 Jan 2014

Professor

University of Technology Sydney

Sydney, Australia
1 Jan 2009 → 1 Jan 2023

Prizes

ACM Distinguished Scientist
Cao, Longbing (Recipient), 2019

Eureka Prize
Cao, Longbing (Recipient), 2019

Data Science Lab

www.datasciences.org