

[Title]

Research on Partial Label Learning

[Abstract]

Partial label learning (PLL) is one of the important weakly-supervised learning frameworks. Under the partial label learning framework, each example is associated with multiple candidate labels among which only one is valid. Partial label learning techniques have been widely used in many scenarios including automatic multimedia content annotation, natural language processing, ecoinformatics, etc. In this talk, the state-of-the-art on partial label learning will be introduced from three aspects. Firstly, the problem setting of partial label learning and its relationships to other weakly-supervised learning frameworks are briefly discussed. Secondly, existing works as well as our recent progresses on designing partial label learning algorithms are summarized. Thirdly, related academic resources on partial label learning are given.

Bio: Min-Ling Zhang received the BSc, MSc, and PhD degrees in computer science from Nanjing University, China, in 2001, 2004 and 2007, respectively. Currently, he is a Professor at the School of Computer Science and Engineering, Southeast University, China. His main research interests include machine learning and data mining. In recent years, Dr. Zhang has served as the General Co-Chairs of ACML'18, Program Co-Chairs of PAKDD'19, ACML'17, CCFAI'17, PRICAI'16, Senior PC member or Area Chair of AAAI'19/'18, IJCAI'19/'18, ICDM'18/'17, etc. He is also on the editorial board of ACM Transactions on Intelligent Systems and Technology, Neural Networks, Science China Information Sciences, Frontiers of Computer Science, etc. Dr. Zhang is the secretary-general of the CAAI (Chinese Association of Artificial Intelligence) Machine Learning Society, standing committee member of the CCF (China Computer Federation) Artificial Intelligence & Pattern Recognition Society.