

Tsuyoshi Idé (“Ide-san”), Senior Technical Staff Member, IBM T. J. Watson Research Center



- Summary
 - Dr. Ide, Senior Technical Staff Member, Member of IBM Academy of Technology, has 10+ years experience in applied and basic machine learning research. His major research interests include sensor data analytics and federated learning. With advanced AI methods, he has successfully led many customer engagements in a variety of industries.
 - He is best known as a leading researchers in anomaly detection. He has 50+ peer-reviewed papers with 1800+ citations in total. He is also the author of one of the best-selling textbooks in machine learning in Japan.
- Professional experience
 - 2013- : IBM T. J. Watson Research Center
 - ✓ Senior Technical Staff Member, Operations Management Analytics & Solutions
 - ✓ Member of IBM Academy of Technology
 - ✓ Manager, Service Delivery & Risk Analytics (2013-2014)
 - 2010-2013: IBM Research – Tokyo
 - ✓ Manager, Analytics & Optimization
 - 2000-2009: : IBM Research – Tokyo
 - ✓ Researcher in data mining and display technology
- Industry experience in customer engagements
 - Automotive, semiconductor, oil & petroleum, mining, cement, maritime, healthcare, rail, etc.
- Recent papers (first-authored, past three years)
 - IJCAI 2019, "Efficient Protocol for Collaborative Dictionary Learning in Decentralized Networks",
 - AAAI 2019, "Tensorial Change Analysis using Probabilistic Tensor Regression"
 - IEEE ICDM Workshop 2018, "Collaborative Anomaly Detection on Blockchain from Noisy Sensor Data"
 - IEEE ICDM 2017, "Multi-task Multi-modal Models for Collective Anomaly Detection"
 - IEEE Trans. Intelligent Transportation System 2017, "City-Wide Traffic Flow Estimation from Limited Number of Low Quality Cameras"
 - IEEE ICDM 2016, "Sparse Gaussian Markov Random Field Mixtures for Anomaly Detection"
 - IJCAI 2016, "Change Detection using Directional Statistics"
- Education
 - 2000: Ph.D. from University of Tokyo, Japan
 - ✓ Theoretical condensed-matter physics
 - 1993: B. Eng. from Tohoku University, Japan
 - ✓ Mechanical Engineering