Kristin Bennett

Professor, Mathematical Sciences and Computer Science & Associate Director, Institute for Data Exploration and Application (IDEA) at Rensselaer Polytechnic Institute

Troy, NY, US

Extracts information from data using novel predictive or descriptive mathematical models

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Biography

Kristin P. Bennett is the Associate Director of the Institute for Data Exploration and Application and a Professor in the Mathematical Sciences and Computer Science Departments and at Rensselaer Polytechnic Institute. Her research focuses on extracting information from data using novel predictive or descriptive mathematical models and data visualizations, and the applications of these methods to support decision making and to accelerate discovery in science, engineering, public health and business. She has 30 years of experience and over 100 publications. As an active member of the machine learning, data mining, and operations research communities, she has served as a study section member for the NIH National Library of Medicine and as associate or guest editors for ACM Transactions on Knowledge Discovery from Data, SIAM Journal on Optimization, Naval Research Logistics, Machine Learning Journal, IEEE Transactions on Neural Networks, and Journal on Machine Learning Research. She served as program chair of the ACM SIGKDD International Conference on Knowledge Discovery and Data Mining and She has led many data-driven health-related projects based on machine learning and data mining. These include the award winning ?MortaltyMinder app for understanding the social determinants of mortality, the NIH-sponsored ?TB-Insight? project which uses bioinformatics to track and control tuberculosis, emergency department revisits for Albany Medical Center, and a project on high needs patient management for Capital District Physicians Health Plan, and the privacy preserving synthetic health data project for United Health Foundation, and subpopulation risk analysis method for IBM. She also led projects on sensor-based anomaly detection for industrial partners including GLOBALFOUNDRY and GE Renewables. She founded and directs the Data Interdisciplinary Challenges Intelligent Technology Exploration Laboratory (Data INCITE Lab.) which is pioneering highly effective new approaches for data analytics in undergraduate education with sponsorship from NIH, United Health Foundation, and industrial partners. In the Data INCITE Lab, undergraduate and graduate students tackle open applied data analytics problems contributed by industry, foundations, and researchers.

Areas of Expertise

Bioinformatics, Data Visualization, Machine Learning, Data Mining, Health Informatics

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Education

University of Wisconsin, Madison
Ph.D. Computer Sciences

University of Wisconsin, Madison
M.S.

University of Puget Sound
B.S.

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