

Robert E. Dansby, Ph.D.

Fields: Healthcare Informatics / Data Science / Statistics

Career Highlights: Dr. Robert E. Dansby has broad experience as a research scientist and business executive who specializes in healthcare informatics and analytics. He currently focuses on new technology product/service development in the healthcare space. Analytic and quantitative specialties include: mathematics of algorithms, operations research / nonlinear optimization, index theory, and econometric / statistical analysis. He has 25+ years experience in the Bell Labs – Mathematics & Operations Research Division where he worked on a variety of technology development projects that involved complex mathematical and statistical challenges. He developed a unified theory of performance indexes that has become a seminal work in the field; his papers are cited in hundreds of papers and books on the subject. As a leader of the Bell Labs Venture Group, his other key technical accomplishments included contributions to the development of: (A) the Karmarkar Optimization methodology; (B) the first programmable hearing aid; and (C) one of the first hospital information systems. His current interests focus on implementing innovative healthcare solutions that utilize analytic tools, health information technology (HIT), telehealth, informatics and clinical trial management software to help improve healthcare outcomes by enabling more personalized medicine. Dr. Dansby has a successful career spanning technical research and development (Bell Labs – Mathematics and Operations Research Division), corporate and entrepreneurial business pursuits (AT&T Regulatory, AT&T Internal Ventures and various venture start-ups) as well as higher education (Visiting Professor at Yale University’s School of Organization & Management, Rutgers Business School, Xavier University and UAPB).