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Academic interests: Data mining, Database management, Management Information Systems

Research Focus & Techniques of Expertise: The proposed research is intended to apply data mining and text mining to databases as available on the web for the various plant species of major crops grown in the State of Arkansas, such as rice, cotton, soybeans, and sorghum. The analysis will also be for plant genomics at the DNA level using micro-array databases also available on the web.

The importance of this research is that implications for designs for biogenetically enhanced crops grown in the State of Arkansas can be inferred by examining the results of both data mining and text mining for the genomics of plant data. Relationship to variability of the critical DNA genomics factors toward as effects of plants such as protein or vitamin content as some of the possible directions of this research. The research techniques are to include data mining and text mining using software of SAS® Enterprise Miner™. This research is targeted to other funding sources such as Plant Genome Research Program (PGRP) of the National Science Foundation.

Grants

EPSCoR P3-Center Seed Grant: P3-209

Enabling Crop Deregulation with Software: A Prototype

PI: Daniel Berleant; Co-PI's: Richard Segall and Elizabeth Hood