Colloquium

Department of Computer Science

Dr. Chester Langin

Dr. Chet Langin has a broad range of research and experience in Computer Science and information technology including processing massive datasets in genomics, network logs, and digital forensics with files containing many millions of lines and many terabytes of data. His research includes using self-organizing maps, artificial immune systems with danger theory, and fuzzy reasoning to visually analyze massive and complex data.

November 6, 2015
2:00 p.m.
Faner 1005

A SOM+ System for
Visualizing Big Data

The presentation of research creating a theoretical hybridized Big Data diagnostic system including complex hybridization of a 3D full-color Self-Organizing Map (SOM) , an Artificial Immune System with Danger Theory (AISDT), and a Fuzzy Inference System (FIS). This SOM+ diagnostic archetype is modular, multitaskable, scalable, intuitive, adaptable to quickly changing scenarios, and uses relatively few resources.