

Data Mining, Database & Multimedia (DDM) Research Group

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Research Areas

Big Data Mining & Analytics

- DDM Spark Cluster
- Sentiment Analysis
- Streaming Flume Sinks
- Unstructured & Heterogeneous Data Management
- Cluster Management

Databases & Distributed Computing

- Cloud Computing
- Elastic MapReduce
- Glacier Storages
- NoSQL DataStores
- Data Warehousing
- Imbalanced Data Sets
- Missing Value Imputations

Multimedia Information System

- Content-Based Retrieval
- Video Indexing and Mining
 - Object Tracking and Indexing
 - Video Event/Concept Detection
- Deep Learning
 - Convolutional Neural Networks
 - Deep Random Forests
- DDM-Miner (Web-based Semantic Mining and Retrieval System)
- DMM Manager (Distributed Multimedia Management System)

Medical Data Mining & Analytics

- Treatment Effect Models
- Patient Sub Group Analysis
- Spatial & Temporal Analysis
- Multivariate Analysis

Multimedia Networking & Security

- End-to-End Video Transmission
- Congestion Control
- Router Queue Management
- Intrusion Detection

Funding Agencies:

- ❖ NSF
- ❖ NOAA
- ❖ FDOI (Florida Department Of Insurance)
- ❖ OIR (Florida Office of Insurance Regulation)
- ❖ Naval Research Laboratory (NRL)
- ❖ National Park Service

