Research Areas of Interest

• Solving real-life knowledge discovery problems through development of novel machine learning algorithms.
• Collection, extraction and integration of Web data.
• NLP: including entity extraction and linking, sentiment analysis and deception detection.
• Web data cleaning, e.g., entity matching and linking across Web sources, detection and correction of missing and erroneous data values in an entity description (e.g., phone number or address)
• Computer vision - visual retrieval, visual recognition, visual surveillance, visual tracking and detection, human/face recognition and detection.
• Intelligent vehicular technologies, traffic understanding, and road condition monitoring.

Qualifications & Capabilities

Team

Slobodan Vucetic (Professor and Chair) - leader in data science learning from heterogeneous data, AI-based decision support systems.

Eduard Dragut (Assistant Professor) – expertise in Web data management and mining, including, Deep Web, entity extraction and linking, data integration, sentiment analysis and deception detection.

Haibin Lin (Professor) – expertise in computer vision, augmented reality, medical image analysis, and human computer interaction.

Funding. Team members received funding from NSF, NIH, & AFOSR as well as industry, e.g., Yahoo and ExxonMobil.

Facility

• Center located in the Science Education and Research Center (SERC) completed in Fall 2014 at a cost of $137M.
• SERC houses a 1000 SF data center (SDC).

Qualifications

• Representation and learning from unstructured event data
• Modeling of spatio-temporal processes
• Resource-efficient knowledge discovery
• Physics and logic constrained deep learning

Sought Specific Capabilities

• Multilingual NLP expert
• Social scientist
• Big Data visualization expert

Seek partnering with research group who attracted and completely successfully IARPA projects.