



Temple University

Center for Cognitive Computing

Lead: Slobodan Vucetic

Current Team Members

Eduard Dragut

Haibin Ling

## 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.

## 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.

Point of Contact: Eduard Dragut

Assistant Professor

Temple University

edragut@temple.edu

215-204-0521

<https://cis.temple.edu/~edragut/>

Slobodan Vucetic (vucetic@temple.edu):  
<http://www.dabi.temple.edu/~vucetic/>

Haibin Ling (hbling@temple.edu)

<http://www.dabi.temple.edu/~hbling/>