

1. Education and Training

- Rowan is becoming a major hub for medical, health science and biomedical studies in South Jersey
 - Established Cooper Medical School in partnership with Cooper Hospital
 - Created School of Biomedical Sciences starting July 2012
 - Developing College of Health Sciences collaboration with Rutgers Camden School of Osteopathic Medicine will join Rowan starting January 2013
 - Graduate School of Biomedical Sciences at SOM will join Rowan next year
- Focusing on Big Data for health
 - Creating Health Data Analytics program offering an MS and certificate options in Computational Data Analytics and Health Data Management
- Examining the feasibility of adding big data studies in areas outside health
- Having access to health data for education and research purposes

2. Multidisciplinary Research Expertise

- Big data expertise in College of Engineering, and College of Science Mathematics
 - Signal Processing & Pattern Recognition Lab (SPPRL) at Rowan
 - Software Engineering, Graphics, and Visualization (SEGV) Lab
 - Analysis of
 - ◆ large volumes of streaming data
 - ◆ nonstationary data
 - ◆ genomic data (in collaboration with Drexel)
 - ◆ biomedical data (EEG, MRI, PET, etc.)
 - ◆ air traffic data (in collaboration with the FAA)
 - Extracting knowledge from Big Data through
 - ◆ algorithms and statistics
 - ◆ advanced visual analytics

3. Infrastructure

- Available in support of current Big Data for health and aviation projects in SPPR and SEGV Labs
- Planning is underway for infrastructure to support Data Analytics Research Center and E-Health Data Laboratory

4. Industry Partnerships

- Initiated creation of Big Data-Special Interest Group (BD-SIG) at IEEE Communication Society
- A senior scientist from AT&T leading the creation of HDA at Rowan
- Establishing contacts with hospitals, pharmaceuticals, insurance companies in South Jersey as well as Delaware and Pennsylvania
- Federal Aviation Administration

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