

About CARTA

The University of Maryland, Baltimore County (UMBC), the Rutgers University New Brunswick, Rutgers University, Newark, the North Carolina State University (NCSU) and Tel Aviv University together form the National Science Foundation's Center for Accelerated Real Time Analytics. This center, formed in 2018, is part of NSF's Industry University Cooperative Research program. It has an extraordinary roster of industry and government partners who are focused on cutting edge interdisciplinary research in real time analytics to address problems of national significance.

The center works with next-generation hardware technologies to build Cognitive Analytics systems and Active storage devices for real time analytics. This will lead to the automated ingestion and simultaneous analytics of Big Datasets generated in various domains including Cyberspace, Healthcare, Internet of Things (IoT) and the Scientific arena, and the creation of self-learning "smart" systems.

If you or your company has an interest in becoming a member, or you have any questions or comments please contact us.

Partners



The Center for Accelerated Real Time Analytics (CARTA)

NSF funded Industry University Cooperative Research Center

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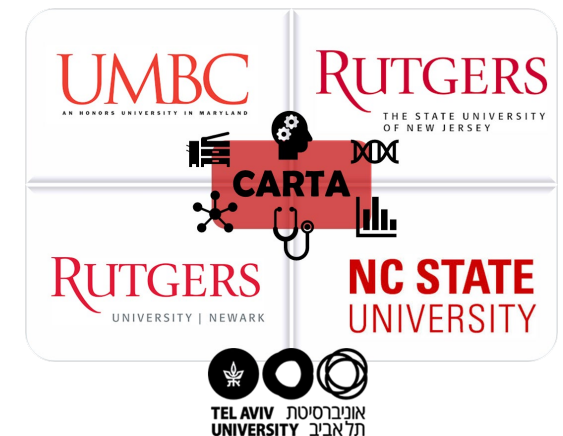
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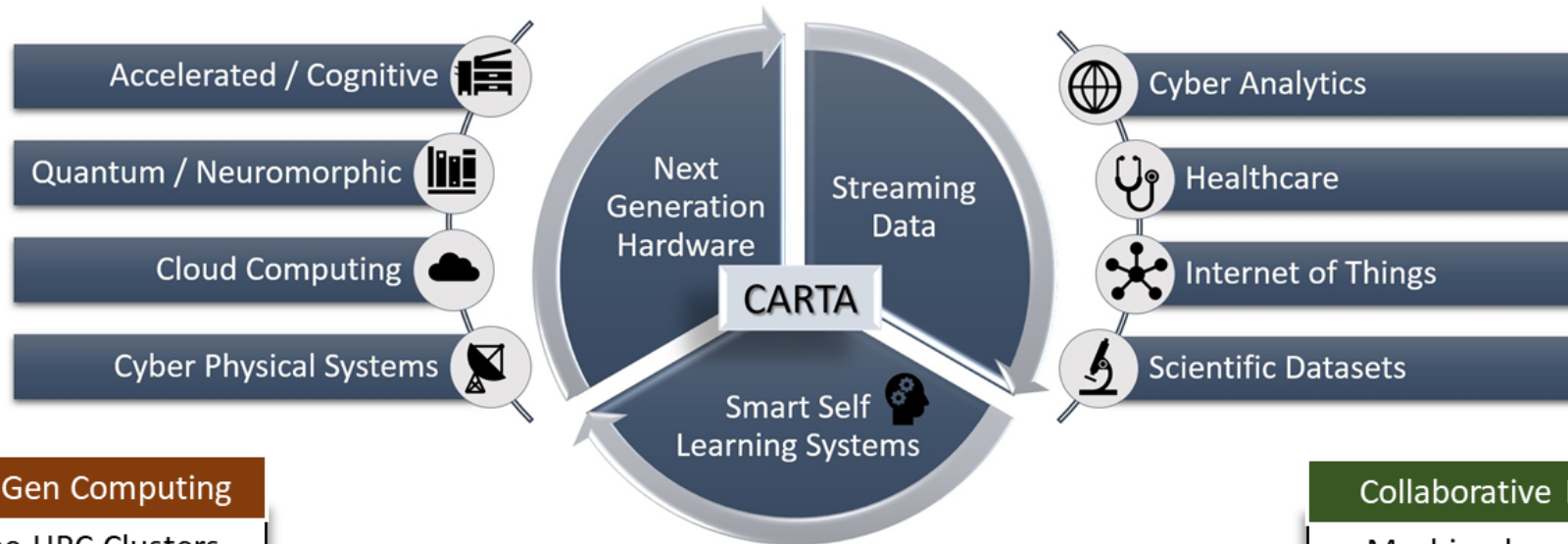




ARTA

NSF Funded Industry/University Collaborative Research Center

CENTER FOR ACCELERATED
REAL TIME ANALYTICS



Next Gen Computing

- Three HPC Clusters
- IBM Minsky nodes + GPU accelerated processors
- Quantum Computing
- Seagate Active Storage; HDDs, and Kinetic disks for real time analytics

Industry, Academia and Government working together on cutting edge research in Data Analytics with a focus on Real Time Decision Making using Next Generation Accelerated Computing.

Research Teams

- Over 50 faculty from 5 Universities
- Over 15 graduate students

Members

- Over 20 Members from Industry and Government Agencies support CARTA

Collaborative Projects

- Machine learning for Weather and Climate
- Bringing Computing to Big Data Storage
- Food security
- Synthetic Biology
- Legal Text Analytics
- Quantum Analytics
- Cloud Data Privacy, Security & Compliance