

Analytics Research Center (ARC)

(CHIEF TECHNOLOGY OFFICE)



SPAWARSYSCEN Atlantic, P.O. Box 190022, N. Charleston, SC 29419

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Current Initiatives

Projects and Ideas Forum: to discuss, collaborate, and share on project progress and ideas

Collaborative Learning: to grow the knowledge-base of the ARC community

Analytics Topics Seminar: to learn and share knowledge on emerging data science

ARC Interfacing: to explore Navy and Marine Corps S&T gaps and challenges and identify collaboration opportunities

STEM Challenge: to provide opportunities for young students to work on real world analytics problems

AMS Conference Special Session: Data Analytics and Applications, March 10-12, 2017, Charleston, SC

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Worldwide data volume is growing at a minimum rate of 59% annually. 90% of all the data in the world has been generated in the past two years. The US Navy needs tools to parse, understand, analyze, and visualize large unstructured data quickly and effectively.

Data / discovery analytics is the discovery and communication of meaningful patterns in data, such that it can be translated into actionable knowledge for making informed decisions. Scientific areas of interest include intelligence analysis, big data fusion and processing, complex networks and graphs, machine learning, unstructured text and natural language processing, and time series analysis. Other related areas include artificial intelligence, recommender systems, geospatial analytics, business and predictive analytics, socio-cultural modeling, social media analytics, biometrics, image and video understanding, assisted decision-making, business and predictive analytics.

The ARC Initiative is a concerted effort to develop a nationally recognized S&T Center of Excellence with recognized analytics capabilities, projects, and skillsets for engaging in Naval data and knowledge-understanding challenges to tackle the Navy's data and knowledge-understanding problems. The Analytics Research Center will be established to do achieve the following goals:



Enhance **visibility** internally and externally

Solidify and formalize the command's emphasis on **analytics** and **data science**



Cultivate a **collaborative environment** in a SPAWARSYSCEN ATLANTIC S&T Focus Areas

Foster **learning, growth, and interest** in data science now and for the future

