



NETWORKS AND COMMUNICATION STUDIES

“The Geo-Intelligence of Augmented Reality, Social Network Mapping, and Location Based Services”

This special issue of NETCOM will focus on a matter of critical concern to the intelligence community, including both government intelligence and business intelligence practitioners. How can geographical analysis of social networks, location aware services, and augmented reality be used to create useful intelligence? As augmented reality provides real time mapping into the real world of complex data sets, what might be the implications for intelligence analysis or operations?

Intelligence - In its broadest sense, intelligence involves "sense making" of the environment. On the government side, intelligence today is much concerned with overall national security, economic security, international criminal syndicates, terrorism, human trafficking and in some regions with war-fighting. In private multinational enterprises, intelligence sometimes goes by the name of "competitive intelligence" or "business intelligence", but serves a similar purpose of protecting the enterprise.

Social Networking - Social media, including social networking, has grown rapidly and is challenging many models of information and social interaction on the Internet. Businesses are using social media to recruit skilled employees, collect information on consumers, and build communities of interest. Business intelligence operations are exploring how social media can short-cut research processes, or can help develop useful information regarding the market or the competition. Government intelligence practitioners are examining the effect social media is having on international relations in places such as Iran, where it has revolutionized the communications activities of protesters. At all levels, a giant effort is from social networks, and how to "map" social networks to important and potentially challenging phenomenon.

Augmented Reality - AR allows the real-time mapping of complex location-aware data sets against live video display of one's surroundings. A complex layer of location-aware information appears to "float" in space on top of the real world. For a video see [here](http://tinyurl.com/ncmwfa). (<http://tinyurl.com/ncmwfa>) Data sets are hidden in "layers" that can be turned on or off. The information sources of the Internet are merged with the real world.

Research Questions: The applications emerging are broad, but for this special issue of NETCOM we are interested in the fusion of Geographical analysis, social networks and augmented reality. We are interested in papers that can offer insights into any of these questions or areas of interest:

Area 1 -- Analysis and "Sense Making" Mapping including: (1) Technologies (or approaches) for automated analysis of social media, including social networks, providing such analysis leads to a solution in geographical mapping or augmented reality; (2) Survey of advanced technologies that "data mine" and create 3-D geographical displays of social media for deriving intelligence for either government or business purposes.

Area 2 -- Display of Multiple Networks including: (1) Inter-social Media systems and portals connect whole or parts of one social media system with another - how can this be charted and mapped?; (2) What is a geographical representation of social networks mapped into augmented reality?; (3) What are the development tools, applications, and data sets used to transform geocyberspace into augmented reality?

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Area 3 -- Organizational Impact including: (1) Geocyberspace mapping of organizational use of social media or augmented reality; (2) What tools are available for an organization to make best use of the intelligence gathered?

Step One - Submission of One-Half Page Precis:

IMPORTANT: The online form to submit your one-page page precis is [here](http://tinyurl.com/yhwnskq). (<http://tinyurl.com/yhwnskq>)

Reference Literature. You may wish to consult the suggested reference literature. It is in the document [here](http://tinyurl.com/yhufofd). (<http://tinyurl.com/yhufofd>)

Schedule of Special Issue

March-April 2010	Call for Papers
May 15	Deadline for receipt of Precis
May 30	Guest Editor's Response to the Authors (Acceptance of Proposal)
October 15	Authors Submit Papers and Suggest Referees
October 15 - Dec.	Double blind reviews of papers
January 15, 2011	Authors Receive Referee Comments
February 25	Authors Submit Final Papers based on Comments from Referees and NETCOM Secretariat
March-April	Typesetting, Proofing and Layout
June	Publication of Special Issue

Evaluation of Submissions: Each of these perspectives should be analyzed from the point of view of their possible effect on private and public intelligence organizations and the various information challenges they face. We are particularly interested in exhibits that show mapping and other display of data. The key exhibits will be included in the journal, and supplementary exhibits will be published on the NETCOM website. For details on formatting for submissions, see <http://www.netcom-journal.com/auteurs.html>

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