

Cooperative Information Systems: Trends And Directions

CHAPTER 3

Trends in Decision-Making Tools

Geospatial Technologies

There is consensus among most professionals that the geospatial technology exists to support most of today's decision-making activities. Developing the ability and commitment to adapt to this technology quickly, in terms of both upgrading equipment and techniques and educating and training staff, is a challenge facing transportation agencies. To complicate matters, geospatial technology continues to expand and improve rapidly to meet new demands, placing an even greater burden on relatively slow-moving public agencies to take advantage of the new capabilities.

To provide decision makers with insight into the potential available to them, the following sections present relevant trends in geographic information systems (GIS) and geographic information science (GISc) that will affect decision-making abilities and tools. "GIS" refers to the technologies for capturing, storing, processing, and communicating geospatial information. "GISc" refers to the theories, models, and methods that underlie GIS (Goodchild 1992). The development of location-based services (LBS), an important trend in the provision of geoinformation to casual users, is also discussed. These trends will change the scientific and technological context for multimodal geospatial information infrastructure in transportation.

INDUSTRY TRENDS

In the past few years the geospatial information industry has undergone significant changes. It has evolved

rapidly from proprietary and highly specific GIS-based applications to broader inclusion in an organization's information technology enterprise environment (see Box 3-1). Although the market for highly specialized GIS will continue, a faster rate of growth for geospatially enabled applications and services (call centers, command and control, business intelligence, emergency response) is emerging. This transition is most pronounced in transportation, public safety, telecommunications, and utilities. Public-sector agencies are beginning to realize the value of integrating location capability into their systems and, in doing so, reaping significant benefits in having access to and using the billions of dollars worth of geospatial data created over the last two decades.

GIS TRENDS

GIS are evolving to reflect changes in several areas. The expanded ability to collect and manage information, multimedia capabilities, the development of location-aware technologies (LAIs), and mobile computing are a few examples of these changes. The following paragraphs provide some ideas of what these may mean to transportation professionals.

Data Poor to Data Rich

New methods for collecting georeferenced data include automated, real-time data capture and environmental

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tuttolblackberry.com: Cooperative Information Systems: Trends and Directions (System and Functional Groups) (): M. P. Papazoglou, G. Schlageter. Cooperative Information Systems: Trends and Directions contains chapters from international experts in the field on all aspects of cooperative information. The book contains chapters from international experts in the field on all aspects of cooperative information systems. It covers theory, practice, implementation. Cooperative Information Systems is a relatively young research area whose birth appeared in: Cooperative Information Systems: Trends & Directions, Mike P. In the cooperative information system manifesto, technologies for the cooperation .. Cooperative Information Systems: trends & Directions, M.P. papazoglou. Find great deals for Cooperative Information Systems: Trends and Directions by G. Schlageter and Michael P. Papazoglou (, Paperback). Shop with. Information Resources Management Association. International Conference Cooperative Information Systems Trends and Directions. Academic Press, Reaction is the Essence of Cooperation", in M.P. Papazoglou and G. Schlageter, editors, Cooperative Information Systems: Trends and Directions, Academic. Verhofstad, J.S.M.: Recovery Techniques For Database Systems. Cooperative Information Systems: Trends & Directions, Academic-Press New York (). "Reflection is the Essence of Cooperation", in M.P. Papazoglou and G. Schlageter, editors, Cooperative Information Systems: Trends and Directions, Academic. The model needs to be refined in the following directions, which will be studied in future work. A more Cooperative Information Systems: Trends & Directions. Cooperative Information Systems (CIS) facilitate the cooperation Cooperative Information Systems: Trends and Directions (System and. We call such next generation ISs Cooperative Information Systems (CIS). Cooperative Information Systems: Trends and Directions (System. Abstract. Managing the quality of exchanged data is a relevant problem in any cooperative information system. If the quality of exchanged data is not known, the . This paper presents an agent-oriented method and a generic agent-based architecture for the development of Cooperative Information Systems (CISs). M. L. Brodie, The Emperor's Clothes Are Object Oriented and Distributed, in Cooperative Information Systems: Trends and Directions, M. P. Papazoglou and G. Cooperative information systems: a manifesto. G De Michelis, E Cooperative Information Systems: Trends & Directions, , A systematic approach to define the domain of information system security risk management. *, Service-Oriented Computing: Concepts, Characteristics and Directions. M Papazoglou. WISE: 4th international conference on web information systems engineering, , Cooperative information systems: a manifesto Cooperative Information Systems: Trends & Directions, , In M.P. Papazoglou and G. Schlageter, Eds., Cooperative Information Systems: Trends and Directions. Academic Press, 3. Dobbs, J.H. Competition's new . International Journal of Cooperative Information Systems for World Scientific .. editors, Cooperative Information Systems: Trends & Directions. Academic Press. distributed hypermedia and cooperative information systems. Systems: Trends & Directions, Papazoglou, M. P.

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