Defense Technical Information Center
Compilation Part Notice

ADP013316

TITLE: Discussion - Operations Visualisation 1

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This paper is part of the following report:

TITLE: Multimedia Visualization of Massive Military Datasets [Atelier
OTAN sur la visualisation multimedia d'ensembles massifs de donnees
militaires]

To order the complete compilation report, use: ADA408812

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The following component part numbers comprise the compilation report:
ADP013309 thru ADP013341

Discussion – Operations Visualisation I

Use of
- color
- overlays
- amount of detail
- multiple vs single displays

Visualising dynamic relationships

Use of COTS components

Need to react to a situation in terms of the static background, or context

Computing systems good at answering the questions you ask, not necessarily the answer you want to know.

Temporal relationship

Dynamic situation and data

Scalability

Varying level of detail

Tend to put all the information we know into a visualisation, especially when we're not sure what we want to know. Use visualisation to help us see what we need to know, even if we're not sure what that is. Danger of information overload, which instead of clarifying complicates. Varying levels of detail on display can help prevent info overload while still maintaining valuable info

Using level of detail to indicate the difference between general to specific

Context sensitive
        Surveillance/control
        What can be controlled
        What can be observed

Drill down
Reactive

Ambient visualisation

Speech
Anomalies in sound
3D audio
generic vs learned capabilities
Noticing something different in the environment, be it through sight, sound, or other form of input that the user notices.
Machine learns how to best present information to a specific user, neural network.
The visualisation becomes an extension of the person