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13. ABSTRACT *(Maximum 200 words)*

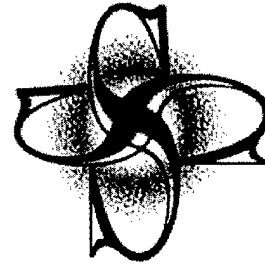
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**Computational Models of Human
Organization Dynamics**

Quarterly Report #12

Sponsored by
Defense Advanced Research Projects Agency
Information Systems Office
Computational Models of Human Organization Dynamics
ARPA Order No. E495
Program Code No. 6S10
Issued by DARPA/CMO under Contract #MDA972-97-C-0001

Period Covered: 12/1/99 – 2/29/00

Reporting Period

This is the twelfth and final quarterly report for the project: Computational Models of Human Organization Dynamics. This report covers the period from 12/1/99 through 2/29/00.

Progress During Reporting Period

During this final quarter we have brought each of our theoretical and methodological developments forward and stated them in one consistent language (i.e., the formal ontology we developed to express the commitments of Generative Practice Theory). The methods include general ones, such as Practice Mapping and Planning by Analysis, as well as our specific algorithm for managing asymmetric threats.

We have extended our ACCORD technology suite so that it can set up and run simulation experiments over the Internet.

We have significantly refined our preliminary specification for the group-work environment that we call the Consensus Facilitation Architecture. This architecture supports group development of organizational models and plans in the light of our work on Critical Dialogue. In essence, we show how technology can embody commitments of this experimentally-tested discipline for group work. In addition to the data-sharing kinds of support all groupware products embody, we have specific facilities to test for group coherence (over beliefs, goals, and plans) and to flexibly form sub-networks to resolve differences.

We have begun to prepare a training course for Practice Mapping, so that we can train others to conduct this work. Over the long term, we view this as an essential contribution, since it will prove that it is not necessary to have a deep background in each of computer science, psychology, and social theory to productively apply our methods.

Plans for Next Quarter

This contract concludes at the end of this quarter.

Equipment Purchases

There were no equipment purchases this quarter.

Personnel Matters

There have been no changes in the key personnel proposed for this project.

Meetings, Important Exchanges, and Decisions

We briefed Larry Willis on our progress. We also participated in useful discussions with Dr. Gary Jackson on potential data sources for future work.

Problems

We have completed this project successfully, on time, and on budget.

Fiscal Status

The table below summarizes the fiscal status for this contract.

Amount Currently Provided	\$1,574,647.
Expenditures and Commitments to Date	\$1574K
Manhours Planned, Actual	Planned = 1521 Actual = 1580
Estimated Funds/Qtr to Complete Work	\$0K
Estimated Date of Completion	2/29/00

Distribution of this Report

The following individuals/organizations comprise the distribution list for quarterly reports on this contract.

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