

# REPORT DOCUMENTATION PAGE

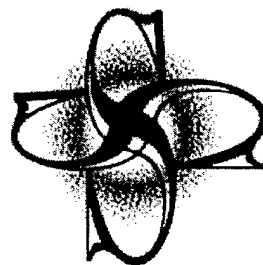
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| 6. AUTHOR(S)<br>Dr. Gregg Courand, Dr. Michael Fehling  |  |   |  |  |
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# **Computational Models of Human Organization Dynamics**

## **Quarterly Report #5**

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: 3/1/98 – 5/31/98**

### ***Reporting Period***

This is the fifth quarterly report for the project: Computational Models of Human Organization Dynamics. This report covers the period from 3/1/98 through 5/31/98. Our annual report covers the period from 3/1/97 – 2/28/98, and so includes the fourth-quarter material.

### ***Progress During Reporting Period***

During this project period we reviewed our progress on the mapping, modeling, and analysis technologies we have been developing, with an eye to defining shortfalls and thus defining future directions. We are investigating the potential for a suitable graph representation as a fundamental tool to encode data on actors and their inter-dependencies.

We have also significantly extended the crisis-response scenario that we are using to test and illustrate the use of our methods and technologies. With the help of an expert on North Africa and on special operations, we have expanded the number of actors, their inter-relations, and the background data that informs the analysis.

### ***Plans for Next Quarter***

Our review this quarter revealed the need to clarify the methodology that disciplines the use of the technologies we have been developing. This is our primary task for the next 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 – Drs. Fehling and Courand.

### ***Meetings, Important Exchanges and Decisions***

We presented our technologies, and described the associated methodology, to Drs. Dyer and Lunceford at DARPA. Both had very positive remarks on the work.

## **Problems**

We have no problems to report at this time. We foresee no substantial risks to our ability to complete this project successfully, on time, and on budget.

## **Fiscal Status**

The table below summarizes the fiscal status for this contract and our projected spending over the next quarters.

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Amount Currently Provided            | \$749,647.                      |
| Expenditures and Commitments to Date | \$419K                          |
| Manhours Planned, Actual             | Planned = 163      Actual = 146 |
| Estimated Funds/Qtr to Complete Work | \$110K                          |
| Estimated Date of Completion         | 2/28/99                         |

## **Distribution of this Report**

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

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