3rd Annual Update

Acceleration...

Jim Rosbe



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Continuity...

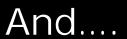
 Continued TacAir-Soar Support & Development

 Continuing Research Efforts for Army, Navy, Air Force



...& new directions...

- Special operations forces modeling
- New training system applications
- Army Future Combat System (FCS) modeling





...the Intel Community...

- Adapting commercial game engines
 - + real-world sensor data
 - + libraries of process models
 - + cognitive agents
 - ...to build dynamic simulation tools for intelligence analysts
- Research on graphic visualization techniques to convey complex information



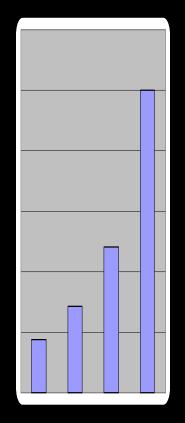
...& new prospects

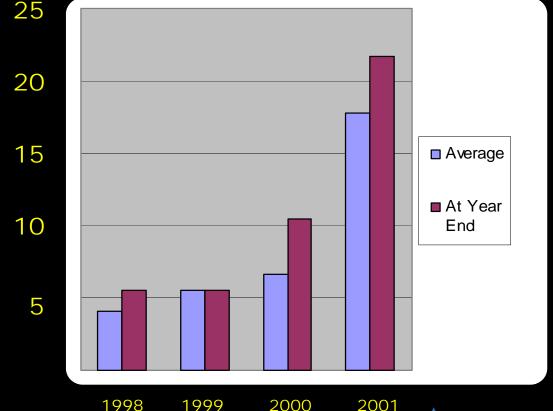
- Robotic forces command and control
- Automated "analyst agent" tools
- Enhanced error-extended GOMS tools
- Multi-agent training & tutorial systems
- Cognitive task analysis & knowledge extraction tools
- New domains
- Games Al

The impact of this on Soar Technology, Inc.

Revenue

Scientific & Engineering Staff





Since Soar 20, the following new staff:

Ann Arbor:

Rich Frederiksen, PhD

Jens Wessling

Jacob Crossman

Scott Colcord

Scott Wood, PhD

Al Wallace

Jon Beard

Orlando:

Amy Henninger, PhD

Lyle Bloom

Maryland:

Bob Wray, PhD

Plus new research subcontracts and internships...

Researchers on subcontract:

Frank Ritter, PhD Penn State U Eric Chown, PhD Bowdoin College Ron Chong, PhD George Mason U

2001 Interns:

Laura Carter U Michigan
Brian Cook U Michigan
Jennifer Kiessel U Michigan
Amity Heckemeyer U Michigan
Richard Falk Michigan State U

Co-Sponsorship:

U Michigan 2001 Computer Games Distinguished Lecture Series

The Challenge: How to keep up with the opportunities we're presented with?

- Recruiting
- Training
- Development tools
- Expanding the range of our expertise
- Internships
- Partnerships & collaborations

Mining Report

<u>Nuggets</u>

- No limit to opportunities and large new markets opening up
- Able to attract highly qualified staff
- Called the "standard by which to judge all other computer generated forces"

<u>Coal</u>

- Limited size of Soar community
- Lack of documentation
- Limited development tools
- Still too busy to branch out into commercial applications



To do Soar research!

Intelligent autonomous agent design and development Cognitive task analysis and modeling Human performance emulation

SPONSORING ORGANIZATIONS

Air Force Research Laboratory Human Effectiveness Directorate (AFRL/HEA)

Army Research Institute (ARI)

Defense Advanced Projects Research Agency (DARPA)

Naval Air Warfare Center Training Systems Division (NAWCTSD)

Office of Naval Research (ONR)

Joint Forces Command (JFCOM)

USAF ASC/YW Training Systems Product Group

USAF XOC

Naval Warfare Development Center (NWDC)

Modeling and Simulation Information Analysis Center (MSIAC)

National Reconnaissance Office (NRO)

Advanced Research & Development Activity (ARDA)

COMMERCIAL PARTNERS

Link Simulation and Training • BMH Associates • Veridian Systems • Lockheed Martin IITRI • BBN Technologies

ACADEMIC PARTNERS

University of Michigan • Information Sciences Institute USC • Pennsylvania State University

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