

# IMAGE 2004 TECHNICAL PRESENTATIONS INDEX of PAPERS

**LOCATING A PAPER:** For your convenience, within this Index papers are gathered into the Special Interest Groups (SIGs) for which they were accepted for presentation. To maintain consistency and avoid confusion only the primary author is listed for each paper. Please be aware that the person who presented the paper at the conference may not be the paper's primary author. To locate a paper: 1) search for it in the Special Interest Groups (SIGs) below for which it would be relevant, 2) once the paper is located find the paper's primary author in the Bookmarks side panel and "click" on the author's name to go directly to the paper.

**DISPLAYS SIG** Chair: Mr. Owen Wynn—SEOS

The Infinity Window: Thirty Years Later	Eicher	USAF AFRL
Observations, Appraisal & Analysis of Image Perceptible Quality on Front Proj. Displays	Mariani	Tech-Com International
A Paradigm Shift in Visual System Design	Thomas	Boeing-Seattle

**ENVIRONMENTAL MODELING SIG** Chair: Mr. Ronald L. Magee—SAIC

Real-Time Simulation Database Generation: A Conceptual Model for the Future	Bitters	University of W. Florida
Automated & Semi-Automated Methods for Extraction of Landcover & Water	Burnett	General Dynamics
Mission Rehearsal Support to Forward Deployed Forces	Preston	ARINC
Road Localization & Cut/Fill Verification Using Terrain Reasoning	St. Germain	University of Utah

**GROUND VEHICLE SIMULATION SIG** Chair: Dr. Yiannis Papelis — National Advanced Driving Simulator - Univ. of Iowa

A Proces for Developing Scenarios for Driving Simulations	Allen	Systems Technology
Understanding & Measuring Visual Transport Latency in Ford 's VIRTTEX Driving Sim	Cathey	Ford Research Lab
Distributed Virtual Proving Ground Simulation of Cooperative Agricultural Tasks	He	Univ. of Iowa
Modeling in a PC-Based Virtual Bicycling & Driving Environment	Jezewski	Univ. of Iowa

**HUMAN INTERACTION & TRAINING TECHNOLOGIES SIG** Chair: Mr. Abe Megahed—Orbital Technologies

An Empirically Driven Model for Human Centric Design	Becker	Strategic Analysis
Vertical Flight Deck Training System	Holmes	Carmel Applied Technologies
UK Human Factors Integration Defence Tech. Cntr: Dev. in Com & Cont, Tng. & Syn.Env.	Stone	Univ. of Birmingham (UK)
Modeling of Visual Perception of a Perspective Scene in an Active Control Task	Sweet	NASA-Ames Res. Cntr.

**MAINTENANCE SIMULATION SIG** Chair: Mr. Abe Megahed—Orbital Technologies

Maintenance Training & Virtual Reality Really Do Make a Great Match	Ives	USAF/AFMC/ASC/YWPF
Technologies to Support Interactive Electronic Technical Manuals	Ricci	NAVAIR-TSD (Orlando)
Using Virtual Reality Technology to Support Aircraft Maintenance Training	Sadasivan	Clemson University
Part Assembly Training Using Interactive	Siddique	University of Oklahoma

**MARINE SIMULATION SIG** Chair: Mr. Steve Fisch—MarineSafety

Composite Approach to Dev. of Spatial Data Modeling Software for Marine Nav. Sims.	Ponomarev	Transas Ltd.
------------------------------------------------------------------------------------	-----------	--------------

**NETWORKED SIMULATION SIG** Chair: Mr. Budimir Zvolanek—The Boeing Company

Deployable Networked Mission Rehearsal with Rapid Integral Scene Generation	Hooper	Object Raku Technology
Test & Training Enabling Architecture (TENA): Realizing the Promise	Hudgins	BAE Systems
Combat Air Force Distributed Mission Operations Today	Maguadog	USAF Tng. Sys. Prod. Gp.
The Common Database: All Encompassing Env. Database Networking Special Ops Sim	Simons	PEOSTRI

**PC SIMULATION SIG** Chair: Mr. Michael Fortin —L3 Com

Analyzing Memory Usage Patterns in a Large-Scale Visual Simulation	Ephanov	Multigen-Paradigm
Achieving Minimum Latency in Virtual Environment Applications	Hill	NASA Ames Research Center
Image Processing to Increase Image Generator Performance	Pray	RPA Electronics Design

**SENSOR SIG** Chair: Mr. Budimir Zvolanek—The Boeing Company

Advanced Sensor Simulation for Military and Civil Applications	Blasband	Evans & Sutherland
Real-Time Simulation of FLIR Sensor Using Geo-Specific Thermal Data	Boyer	CAE