

IMAGE 2005 TECHNICAL PAPERS INDEX

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 Presenting 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 **Presenting Author** in the **Bookmarks** side panel and "click" on the Presentor's name to go directly to the paper.

DISPLAYS SIG Chair: Mr. Robert Clodfelter—Barco Simulation

Embedded Training Display Technology for the Army's Future Combat Vehicles	Eifert	US Army RDECOM
Display Design Concepts for Physics Based Simulation of Night Vision Goggles	Clark	Renaissance Sciences Corp.
Designing Simulator Display Systems	Leethy	Barco Simulation
Mylar vs Glass, One Project's Perspective	Fernie	CAE

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

Generating Enhanced Nat Env & Terrain for Interactive Combat Sim (GENETICS)	Wells	MOVES Institute, NPS
A Framework to Ensure Authoritative Representation of the Natural Env. for Sim.	Moody	Air&Space Nat.Env.
LIDAR-Turning High Fidelity Ground Terrain Data into Geo-Specific Objects	Hooper	Object Raku Technology
Enhanced Urban Synthetic Env. thru Logical Feature Population Techniques	Bitters	Univ. of West Florida
Synthetic Natural Environments from Hight Resolution Sensor Data	Ahlberg	Swedish Def.Res.Agency
Building High Resolution Models...Evolving Standards	Colleen	Planet 9 Studios

GROUND VEHICLE SIMULATION SIG Chair: Dr. Yiannis Papelis—Nati'l Adv. Driving Sim-Univ. of Iowa

Wide Aspect Ratio PC Display Rearview Mirror Insets Low Cost Driving Sim.	Allen	Systems Technology
Enabling More Visual & Immersive Eng Env. for Highway Transportation Industry	Manore	Bentley Systems
An Appl Framework for Military Tng Devices Using Open Source Dev Tool Kits	David	Computer Sciences Corp.
Issues Related to the Commonality & Comparability of Driving Sim Scenarios	Ahmad	Univ. of Iowa
Applying Light Mapping Techniques to Vis-Sim Databases	Morrison	Realtime Tech

IMAGE GENERATION TECNNOLOGIES SIG Chair: Mr. Brian Holmes—CATI Simulation

Bump Texture in Visual Simulation	Cheng	CGSD Corp.
OPTICAM—Rapid CAD Model Generation	Kincaid	OC-ALC/ENET
Benefits of Using 3D Voxel Graphics of Interactive Tng.	Pollock	NGrain
Status Update on the Common Image Generator Interface	Phelps	Boeing

MARINE SIMULATION SIG Chair: Mr. Steve Fisch—MarineSafety

Coastline Terrain Fusion Process	Huber	Johns Hopkins Univ-APL
Modeling & Visualization of Motions of a Small Boat in Large Breaking Waves	Miller	Computer Sciences Corp.
Submersible Vehicle Operator Assistance System	Massey	Johns Hopkins Univ-APL
Approach Implementing Comprehensive Trainee Competence Eval & Assmt Sys...	Ponomarev	Transas Ltd.

NETWORKED SIMULATION SIG Chair: Ms. Rita Simons—US Army PEOSTRI

Remote Virtual Environment Interface to Robotic Surgical System	Cardullo	State Univ of New York
Indoor Location & Tracking System Using Cognitive Packet Network Protocol	Rodriguez	US Army PEOSTRI
Simulation System Correlation and Common Run-Time Databases	Lagacé	CAE
Experiences with an Adaptable HLA Interface	Little	Nova Technologies
Networking Challenges STRI on the Future Combat Systems (FCS) Program	Matthews	US Army PEOSTRI

PC SIMULATION SIG Chair: Mr. Mike Fortin—L3 Com

Image Generator Load Control	Latham	CGSD Corp.
Terabyte Texture Management	Nigus	FlightSafety Int'l
Real-Time GPU-Based Texture Synthesis	Woodard	Diamond Visionics
Military Uses of an Open Source Game Engine	Johnson	MOVES Institute, NPS

SENSOR SIG Chair: Mr. Gordon King—Quantum3D

Sensor Texture Mapping for Three Dimensional Geo-Specific Terrain	Tidball	Camber Corp.
OPENIR: A Validated Infrared Rendering Library	Kanahale	SGI
The Importance of Precision in Real-Time Sensor Simulation	Potter	Quantum3D
A Tool for Accurate Representation of Sensor Simulations Using PC Technology	Myers	Camber Corp.