

# Call For Participation

## IEEE & ACM International Symposium on Augmented Reality 2001

### ISAR '01

October 29–30, 2001

Columbia University, New York, NY

<http://www.augmented-reality.org/isar2001> or

<http://www.cs.columbia.edu/graphics/isar2001>

**Paper submissions due by June 11, 2001**

**Demo submissions due by August 5, 2001**

#### Objectives

ISAR'01 will provide an opportunity for Augmented Reality (AR) researchers from academia and industry to meet in an informal atmosphere to exchange ideas, concepts, and research results. ISAR is meant to trigger discussions among participants and to provide an intensive exchange between academic and industrial researchers working in the different AR research areas.

#### History

ISAR '01 is the fourth in a series of successful events sponsored by IEEE and ACM in cooperation with Eurographics:

ISAR '00: October 2000, Munich, Germany

IWAR '99: October 1999, San Francisco, USA

IWAR '98: October 1998, San Francisco, USA

#### Topics

- AR applications
  - personal AR information systems
  - industrial AR applications
  - medical AR applications
  - AR for Architecture
- System architecture (hardware and software design)
  - wearable computing
  - distributed and collaborative AR
  - performance issues (approaches for achieving real-time AR)
- Information presentation
  - display hardware
  - AR image synthesis
  - real-time rendering
  - photorealistic rendering (e.g., reflection analysis)
  - object overlay and spatial layout techniques
  - aural augmentation
  - mediated reality
  - mixed reality
- Sensors for position and orientation tracking
  - tracking technology
  - calibration methods
  - sensor fusion
  - vision-based registration and tracking
  - acquisition of 3D scene descriptions
- User interaction
  - interaction techniques for AR
  - multimodal input and output
- Human factors
  - usability studies
  - acceptance of AR technology, social implications

#### Invited Speakers

David Hawkes    Guy's, King's & St Thomas' School of Medicine, UK

Ulrich Neumann    University of Southern California, USA

Jun Rekimoto    Sony Computer Science Laboratory, Japan

#### General Chairs

Nassir Navab\*

Siemens Corporate Research, USA

Steve Feiner \*

Columbia University, USA

#### Program Chairs

Ron Azuma\*

HRL Laboratories, USA

Gudrun Klinker\*

Technische Universität München, Germany

Hideyuki Tamura\*

Mixed Reality Systems Laboratory, Japan

#### Demo Chair

Mihran Tuceryan

Indiana University–Purdue University, USA

#### Program Committee

Yuichiro Akatsuka

Olympus Optical Company, Japan

Reinhold Behringer\*

Rockwell Science Center, USA

Mark Billinghurst

University of Washington, USA

Wolfgang Birkfellner

University of Vienna, Austria

Kostas Daniilidis

University of Pennsylvania, USA

Paul Debevec

USC Institute for Creative Technologies, USA

Anthony DiGioia

Carnegie Mellon University, USA

Stephen Ellis

NASA Ames Research Center, USA

Andrew Fitzgibbon

University of Oxford, UK

Eric Foxlin

InterSense Inc., USA

Pascal Fua

Swiss Federal Institute of Tech., Switzerland

David Hawkes

Guy's, King's & St Thomas' School of Medicine, UK

Michitaka Hirose

University of Tokyo, Japan

William Hoff

Colorado School of Mines, USA

Tobias Höllerer

Columbia University, USA

Simon Julier

Naval Research Laboratory, USA

Anthony Majoros

The Boeing Company, USA

Blair MacIntyre

Georgia Institute of Technology, USA

David Mizell\*

Desana Systems, USA

Paul Milgram

University of Toronto, Canada

Stefan Müller\*

Fraunhofer IGD, Germany

Ulrich Neumann\*

University of Southern California, USA

Dirk Reiners

Fraunhofer IGD/ZGDV, Germany

Jun Rekimoto\*

Sony Computer Science Laboratory, Japan

Albert Rizzo

University of Southern California, USA

Dieter Schmalstieg

Vienna University of Technology, Austria

Gilles Simon

LORIA–INRIA Lorraine, France

Andrei State

University of North Carolina at Chapel Hill, USA

Didier Stricker\*

Fraunhofer IGD, Germany

V Sundareswaran

Rockwell Science Center, USA

Haruo Takemura\*

Nara Institute of Science & Technology, Japan

Mihran Tuceryan

Indiana University–Purdue University, USA

Jim Vallino

Rochester Institute of Technology, USA

Hiroyuki Yamamoto

Mixed Reality Systems Laboratory, Japan

Andrew Zisserman

University of Oxford, UK

\* Member of ISAR steering committee

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