Preface

The International Symposium on Smart Graphics 2005 was held from August 22–24, 2005 in the cloister Frauenwörth on the island of Frauenchiemsee, Germany. It was the sixth event in a series which originally started in 2000 as a AAAI Spring Symposium.

In response to the overwhelming success of the 2000 symposium, its organizers decided to turn it into a self-contained event. With the support of IBM, the first two International Symposia on Smart Graphics were held at the T.J. Watson Research Center in Hawthorne, NY in 2001 and 2002. The 2003 symposium moved to the European Media Lab in Heidelberg to underline the international character of the Smart Graphics enterprise and its community.

The core idea behind these symposia is to bring together researchers and practitioners from the field of computer graphics, artificial intelligence, cognitive science, graphic design and the fine arts. Each of these disciplines contributes to what we mean by the term “Smart Graphics”: the intelligent process of creating effective, expressive and esthetic graphical presentation. Many Smart Graphics symposia emphasize a particular aspect of the field in the call for papers. In 2005 our focus was on “Visual Analytics”– the art and science of analytical reasoning facilitated by interactive visual interfaces.

While artists and designers have been creating communicative graphics for centuries, artificial intelligence focuses on automating this process by means of the computer. While computer graphics provides the tools for creating graphical presentations in the first place, the cognitive sciences contribute the rules and models of perception necessary for the design of effective graphics. The exchange of ideas between these four disciplines has led to many exciting and fruitful discussions, and the Smart Graphics symposia draw their liveliness from a spirit of open minds and the willingness to learn from and share with other disciplines.

We would like to thank all authors for the effort that went into their submissions, the program committee for their work in selecting and ordering contributions for the final program, and of course the participants who transformed Frauenchiemsee for three days in August into Smart Graphics Island 2005.

August 2005

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The Smart Graphics Symposium 2005 was held in cooperation with Eurographics, AAAI and ACM Siggraph.
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