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Smart Graphics

10th International Symposium, SG 2010
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Proceedings



Springer

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Preface

The 10th International Symposium on Smart Graphics was held during June 24-26, 2010 in Banff, Alberta, Canada. Smart Graphics brings together researchers and practitioners from the fields of computer graphics, artificial intelligence, cognitive science, graphic design and fine art.

In response to the overwhelming success of Smart Graphics' conception as a AAAI Spring Symposium in 2000, its organizers decided to turn it into a self-contained event. Since then, annual Smart Graphics symposia have been held internationally, in such diverse locations as Heidelberg, Kyoto, Vancouver, Rennes, and most recently in 2009 in Salamanca, Spain, where Smart Graphics was intertwined with the 5th International Arts Festival of Castilla y Leon. Connecting last year's symposium to Salamanca's arts festival intensified the creative flavor of the Smart Graphics sessions, and sparked lively debate and discussion during the course of the symposium, inspiring exploration of the interconnected relationships between the disciplines of arts and sciences. Building upon the momentum begun last year, it was suggested that the 2010 symposium would place specific emphasis on the integration of scientific research and digital media technology into the design of aesthetic experience and artistic practice.

In 2010 we had the opportunity to collaborate with the Banff New Media Institute to present the symposium at Canada's renowned Banff Centre, a facility known worldwide for its creative excellence in arts and culture research, education and practice.

Banff New Media Institute's mandate is to bring together members of the artistic, scientific, and technological communities in order to encourage collaboration, inquiry and the production of interdisciplinary work. Their research shares the vision of Smart Graphics and provided a perfect venue to encourage the Smart Graphics community to explore and share ideas using both creative and analytical thought.

We were pleased to receive a high standard of paper submissions to the symposium, with a range of topics including virtual reality and simulation, sketch-based interfaces, visual analytics, and camera planning. The common thread running through this diverse collection of research was that the Smart Graphics community has framed their investigations in a human-centered way, presenting content that engages the user, effectively supports human cognition, communication, and collaboration and is aesthetically satisfying.

In addition to the paper presentations, the 2010 symposium featured an expanded arts track, presenting a public exhibition of performance, visual art, and installation, showcasing the work of an international community of artists who incorporate technological innovation and research into their creative practice. We were pleased to invite notable guest speakers John Bowers and Maria Lantin to join us in Banff this year. Both these individuals espouse methodologies that

are truly interdisciplinary in nature, drawing from both the art and science worlds to frame their research practices in a human-centered way, making them ideal candidates to inspire and stimulate discussion amongst the Smart Graphics community.

We would like to thank all the authors, reviewers, speakers, exhibitors and conference facility staff for bringing this event together and reuniting the Smart Graphics community for another year of refreshing, cross-disciplinary perspectives on practice and research.

June 2010

Robyn Taylor
Patrick Olivier
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