

## **Eurographics 2005**

# **State of the Art Reports**

**Yiorgos Chrysanthou and Marcus Magnor (Co-chairs)**

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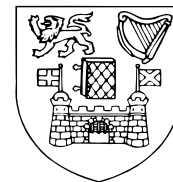
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## Preface

State-of-The-Art Reports, or STARS in short, are intended to be survey papers that cover hot topics in contemporary computer graphics research. Their goal is to give a comprehensive overview of the relevant work in the respective field and to explain the techniques and algorithms involved.

The challenge any potential STAR author faces then is how to make do with the inevitable page limit. While this year's 25 pages do not provide a lot of space to do justice to an entire research field, at the same time it constitutes a lot of work to prepare a submission of this length. For Eurographics 2005, we therefore decided to change the STAR submission format. Instead of fully-fledged STARS, STAR-lets could be submitted, shorter versions of potential STARS-to-be that, nevertheless, give sufficient information to evaluate the timeliness of the proposed topic and the thoroughness of the report.

As a result, we saw a record 22 submissions, many of which were of excellent quality. The submissions addressed various different, yet all fascinating, topics. Seventeen international reviewers volunteered to help us with the difficult task of selecting only six submissions for presentation at Eurographics 2005 in Dublin, Ireland.

This year's STARS cover the gamut from image-based representations to general-purpose computations on GPUs, from Laplacian mesh processing to deformable models, and from verification of physics-based rendering approaches to animating discretely sampled objects. It is our sincere hope that you will find at least some course on this year's STAR menu delightful, and that you will return home from EG'05 inspired by the authors' presentations. Only then will we have been successful.

We thank all STAR authors for submitting their work. Only due to the large number of convincing submissions could such a diverse, high-quality STAR programme be composed. We also thank all reviewers for their valuable time and expertise. Finally, we are indebted to Carol O'Sullivan, EG'05 co-chair, who was always online to support us and to solve many problems even before they arose.

Yiorgos Chrysanthou and Marcus Magnor

August 2005

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## Index

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<b>ST1</b>	<b>Image-based Representations for Accelerated Rendering of Complex Scenes</b>	1
	Stefan Jeschke, Michael Wimmer, Werner Purgathofer	
<b>ST2</b>	<b>A Survey of General-Purpose Computation on Graphics Hardware</b>	21
	John D. Owens, David Luebke, Naga Govindaraju, Mark Harris, Jens Krüger, Aaron E. Lefohn, and Timothy J. Purcell	
<b>ST3</b>	<b>Laplacian Mesh Processing</b>	53
	Olga Sorkine	
<b>ST4</b>	<b>Physically Based Deformable Models in Computer Graphics</b>	71
	Andrew Nealen, Matthias Müllle,, Richard Keiser, Eddy Boxerman and Mark Carlson	
<b>ST5</b>	<b>Verification of Physically Based Rendering Algorithms</b>	95
	Christiane Ulbricht§and Alexander Wilkie and Werner Purgathofer	
<b>ST6</b>	<b>Deforming and Animating Discretely Sampled Object Representations</b>	113
	M. Chen, C. Correa, S. Islam, M. W. Jones, P.-Y. Shen, D. Silver, S. J. Walton and P. J. Willis	

