

Proceedings

# Graphics '98 Interface



18-20 June 1998

Vancouver, BC

Canadian Human-Computer  
Communications Society

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**Front Cover**

*"Dog with Tree"* by Ivan Neulander & Michiel van de Panne, University of Toronto

**Back Cover**

*"Craniofacial Growth & Reconstruction"*  
by Katrina Archer, Kevin Coughlan, David Forsey & Sonja Struben,  
Radical Entertainment & University of British Columbia

Proceedings

# Graphics Interface '98

Wayne Davis, Kellogg Booth & Alain Fournier, Editors



Vancouver, BC  
18-20 June 1998



## Message from the Program Co-Chairmen

**T**he Graphics Interface conference continues to attract quality papers reporting research on computer graphics and human-computer interaction. Sixty-four papers were submitted this year from all over the world. An international program committee of experts in computer graphics and human-computer interaction selected twenty-four papers for inclusion in the final program. In addition, Marie-Paule Cani-Gascuel, Bonnie John, Alvy Ray Smith, and Colin Ware were invited to present papers on key topics of interest to the research community.

Each submitted paper was reviewed by two program committee members and at least two external reviewers. Reviewing was double-blind: external reviewers did not know the names or affiliations of authors and authors do not know the names of reviewers. Reviews for all papers submitted by authors affiliated with the University of British Columbia were administered by a member of the program committee other than the two co-chairmen to avoid any conflict of interest.

The program committee met on the 24th of January in Vancouver, B.C. to make the final selection of papers. Three of the papers accepted for the conference were recognized by the program committee as outstanding contributions and were recommended to the journal *Computer Graphics Forum*. The authors have been invited to submit expanded versions of their papers that will be subject to the normal reviewing process for *Computer Graphics Forum*. Those that are accepted will appear in one of the first two issues in 1999.

This year the Michael A J Sweeney Award was given to the paper "Animating Sand, Mud & Snow" by Robert W Sumner, James F O'Brien and Jessica K Hodgins from the Georgia Institute of Technology. The award is given annually to the best student paper presented at each year's Graphics Interface conference, honouring the memory of Michael A J Sweeney. The winning paper is selected by the program committee from among the papers accepted for the conference for which one or more student authors are presenting the paper.

This year the Graphics Interface Web Site was used to facilitate the submission and review process. The table of contents and abstracts for all papers will be available on the web site after the conference is held. The tables of contents for previous conferences, details about future conferences, and information on the Canadian Human-Computer Communications Society, which sponsors Graphics Interface, are all available on the web site. In future years we expect to make more use of electronic submission and review procedures using the web site at: <http://www.dgp.utoronto.ca/gi/> The web site is maintained by James Stewart and Robert Walker. The new pages and cgi-scripts that were used this year were designed by Robert.

On behalf of Graphics Interface '98, we would like to thank the authors of all papers submitted, the program committee members, the invited speakers, and all the reviewers who volunteered their time to ensure the quality of the Graphics Interface '98 technical program.

Kellogg Booth & Alain Fournier  
University of British Columbia



## Message from the General Chairman

**I**t is with great pleasure that I welcome attendees to Vancouver and Graphics Interface '98. This is the twenty fourth in a series of graphics conferences started in 1969 in Ottawa and held across Canada in various years. It is the longest running graphics conference in the world and continues to provide a significant contribution to the field of computer graphics and interactive techniques. The Canadian Human-Computer Communications Society is pleased to be able to sponsor such a conference and is indebted to all those who have contributed time and effort into making this conference the success that it is.

Again following the pattern established in previous conferences, Graphics Interface is being held in conjunction with Artificial Intelligence and Vision Interface. Holding these conferences jointly has helped to promote the interchange of ideas and to raise the profile of each conference. It is the fervent desire of CHCCS to continue this association.

It is important to recognize the efforts of all those who have helped to organize this conference.

In particular, the program requires a competent program chair, a program committee dedicated to selecting the most appropriate papers and a large number of talented reviewers to read and assess each submission. I would therefore like to express my gratitude to Co-Chairs Kellogg Booth and Alain Fournier and those who participated in the reviewing and critiquing of the submitted papers.

I should also thank all those who submitted papers. Preparing a paper for submission is a lot of work and effort. Unfortunately, not every paper can be accepted; however, every submission is important and appreciated. Thank you for your assistance and a job well done.

I would also like to thank Dan Fass for his assistance with organizing the local facilities and the volunteers. The volunteers perform a vital function in a technical conference such as this, and their efforts are valued and indispensable.

It is also important to express my appreciation and admiration to Fred Peet, the CHCCS Treasurer. Besides paying bills, Fred reads and comments on everything that is sent to him. Thank you Fred for your dedication and invaluable assistance.

Lastly, I would like to express my sincere appreciation to Judith Abbott for her capable handling of on-site registration.

Wayne A Davis  
General Chairman



## Organization

**General Chairman:** Wayne A Davis, University of Alberta

**CHCCS Treasurer:** Fred G Peet, Pacific Forestry Centre

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Eric Neufeld, University of Saskatchewan

### VI Program Co-Chairmen:

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Yee-Hong Yang, University of Saskatchewan

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Kellogg Booth & Alain Fournier

University of British Columbia

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Steven Collins, Trinity College, Ireland

Sabine Coquillart, INRIA, France

Mark Green, University of Alberta

Jessica Hodgins, Georgia Institute of Technology

R Victor Klassen, Xerox Webster Research Center

Alison Lee, IBM Watson Research Center

Stephen Mann, University of Waterloo

Pierre Poulin, Université de Montréal

Holly Rushmeier, IBM Watson Research Center

Tokiichiro Takahashi, NTT, Japan

Dan Weeks, Simon Fraser University

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Jules Bloomenthal

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Mark Bolin

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Pere Brunet

Marie-Paule Cani-Gascuel

Daniel Cohen-Or

Satyan Coorg

Tony DeRose

John Dill

Yoshinori Dobashi

David Drascic

Irfan Essa

Rida Faroki

Paul Ferry

Eugene Fiume

Nick Foster

Dave Fracchia

Baining Guo

Kirk Haller

Derek Hill

John Hughes

Rob Jacob

Susanne Jul

Kazufumi Kaneda

Reinhard Klein

Rolf Koch

Rob Kroeger

Gord Kurtenbach

Eric Lafortune

Francis Lazurus

Ming Lin

Peter Lindstrom

Michael Lounsbery

David Luebke

Evelyne Lutton

Kwan-Liu Ma

Scott Mackenzie

Dinesh Manocha

Joe Marks

Maurice Masliah

Nelson Max

Michael McCool

Barbara J Meier

Moira Minoughan

Shigeru Muraki

Tadashi Naruse

Fabrice Neyret

Greg Nielson

Tomoyuki Nishita

James O'Brien

Jorg Peters

Erik Reinhard

Marcia Riley

Takafumi Saito

Peter Schroeder

Gary Sevitsky

Chris Shaw

Han-Wei Shen

Mikio Shinya

Kenneth Sloan

Jos Stam

Hanqiu Sun

Toshimitsu Tanaka

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