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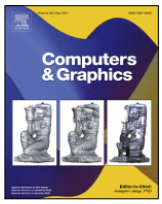

Special C&G and G&VC session at EuroVis

Tobias Isenberg[a,*]

[a] *Université Paris-Saclay, CNRS, Inria, LISN, France*

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ABSTRACT

The authors of a selection of visualization-related articles from *Computers & Graphics* and *Graphics and Visual Computing* will present their work in a special at this years EuroVis conference. The journals plan to turn this session into a recurring event to give the authors of such pure journal articles a better visibility of their work.
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The editorial board of *Computers & Graphics* and *Graphics and Visual Computing* has worked with the steering committee of the EuroVis conference—one of the best venues for publishing and presenting visualization-related work—to allow authors of C&G or G&VC articles to present their work to a conference audience. With this initiative we strive to address the issue that journal publications, despite their benefits of the lack of specific deadlines, being able to respond to reviewers and preparing a major revision if needed, and having an associate editor as a neutral decision maker, can suffer from a reduced visibility compared to conference publications. So similar to the move of major conferences to publish their papers as a special issue in a related journal, many journals now also offer their article authors to present their work at related conferences and, with this initiative, *Computers & Graphics* and *Graphics and Visual Computing* pursue the same goal.

For the first time this year, we are thus happy that we can host a special session at EuroVis about visualization-related content published in our journals from the past year. As part of our agreement with the EuroVis conference, visualization experts from the journals' editorial board thus nominated accepted articles that address visualization topics, and we contacted the respective authors to ask if they were interested in a presentation at the conference. The authors of five articles accepted, so we are happy to host a special session this coming June virtually in Zurich, Switzerland. The work that will be presented includes, in chronological publication order, the following articles.

First, Hauenstein and Newman [1] describe three methods for determining surface curvature in volumetric data, one based on convolution, one based on fitting, and one based on normal estimates, and evaluate their accuracy and computational performance and compare it to prior work. Second, Imre et al. [2] address the problem of how to simplify big graphs, while still preserving their spectral properties. Their approach allows users to efficiently draw big graphs at varying levels of details and outperforms other state-of-the-art simplification methods. Next, Steed et al. [3] present CrossVis, a visual analytics system that allows users to explore heterogeneous multivariate data, with a specific focus on use cases in materials and climate sciences. Then, van Onzenoodt et al. [4] investigate the perceptual influence of shape overlap in scatterplots as it affects data comparison. Based on their work, they provide recommendations for shapes in multiclass scatterplots based on the tasks that are involved. Finally, Kristiansen and Bruckner [5] present Visception: an interactive visual framework for nested visualization design. They analyze the visual channels used by different charts and then represent nesting relationships hierarchically as well as specify data mappings in a customizable way to allow users to define and edit visual representations.

We are glad to see this research on visualization topics get a wide audience at EuroVis and we plan to make this special session into a recurring event. We thus thank, in particular, the EuroVis steering committee for their support and agreement to this presentation format. As part of the deal, Elsevier will make all the mentioned papers freely available (i. e., disable its paywall) for a period of six months during and after the conference.

*Corresponding author: Tel.: +33-1-69 15 64 33; fax: +33-1-69 85 80 88;
e-mail: tobias.isenberg@inria.fr (Tobias Isenberg)

In addition, for this first year of the special session Elsevier also covers the registration costs for the presenting authors.

In the future, visualization-related papers that have not been presented at a conference in the past will be able to be nominated by the responsible associate editor for inclusion in this session. Currently, the list of associate editors in the visualization field includes Abel J. P. Gomes, Anders Ynnerman, Anna Vilanova, Barbora Kozlíková, Bernhard Preim, Cagatay Turkay, João Comba, Katja Bühler, Leila De Floriani, Markus Hadwiger, Rüdiger Westermann, Stefan Bruckner, Tobias Isenberg, Wenping Wang, and Xiaoru Yuan. Provided that the EuroVis papers chairs agree to the list of nominations, we then approach the respective authors for their agreement. We thus thank all associated editors who helped this year and are looking forward to EuroVis in June.

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