The 2019 Visualization Technical Achievement Award

Eduard Gröller

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TU Wien
Award Recipient 2019

The 2019 Visualization Technical Achievement Award goes to Eduard Gröller. Eduard Gröller is Professor at the Institute of Visual Computing & Human-Centered Technology (VC&HCT), TU Wien. In 1993 he received his PhD from the same university. His research interests include computer graphics, visualization, and visual computing.

Eduard has been heading the visualization group at VC&HCT for the last 25 years. The group performs basic and applied research projects in all areas of visualization, like biological data visualization, illustrative visualization, information visualization and visual analytics, medical visualization, perception in visualization, and visualization in the material sciences. He has given lecture series on visualization at various other universities (Tübingen, Graz, Praha, Bahia Blanca, Magdeburg, Bergen). He has been a scientific proponent and currently is a key researcher of the VRVis research center. VRVis is Austria's leading research institution in the field of Visual Computing. With more than 70 employees, VRVis is engaged in innovative research and development projects in cooperation with industrial companies and universities.

Since 2005, Eduard is adjunct professor of computer science at the University of Bergen, Norway, where he has a long-standing collaboration with the internationally successful visualization group there. He co-authored more than 280 scientific publications and acted as a reviewer for numerous conferences and journals in the field. He also has served and serves on various program and paper committees. Examples include *Computers&Graphics*, *IEEE Transactions on Visualization and Graphics*, EuroVis Conference, IEEE Visualization Conference, Eurographics Conference. He has been paper cochair of Volume Graphics 2005, IEEE Visualization 2005 and 2006, and Eurographics 2006. He has been cochair of the VisSym 1999 Symposium, the Eurographics 2011 Conference, and the EuroVis 2012 Conference. Eduard has been Chief Editor of the Journal *Computer Graphics Forum* in the period 2008-2011. He has served on the steering committee of the Eurographics Working Group on Data Visualization between 2001 and 2016, thereof heading the committee in the period 2011-2016.

He became a fellow of the Eurographics Association in 2009 for building up one of the strongest visualization research groups in Europe. He is the recipient of the Eurographics 2015 Outstanding Technical Contributions Award. Eduard is head of the working group on computer graphics of the Austrian Computer Society and member of IEEE Computer Society, ACM (Association of Computing Machinery), GI (Gesellschaft für Informatik), OCG (Austrian Computer Society).

In recent years, Eduard has been working in the areas of comparative medical visualization, multi-scale visualization, biomolecular visual analysis, visualization of nanostructures, visual analysis of parameter spaces, visual data science, and guided navigation. He has secured a substantial amount of competitive research funding for basic research, applied research, and company-driven research. He is the coholder of seven patents. Eduard has published widely in the visualization field with, for example, more than 50 articles in the *IEEE Transactions on Visualization and Computer Graphics* Journal and more than 30 articles in the *Computer Graphics Forum* Journal. He has given over 140 scientific talks. He has supervised approximately 100 Master students in the area of computer graphics and visual computing. Eduard graduated 40 PhD students, where a sizable number of his former PhD students have already established successful research groups in the area of visualization on their own.

Award Information

The IEEE VGTC Visualization Technical Achievement Award was established in 2004. It is given every year to recognize an individual for a seminal technical achievement in visualization. VGTC members may nominate individuals for the Visualization Technical Achievement Award by contacting the awards chair, Holly Rushmeier, at vgtc-vis-awards@vgtc.org.