Announcement

The U. V. Helava Award – Best Paper Volume 66 (2011)

The U.V. Helava Award, sponsored by Elsevier B.V. and Leica Geosystems AG, is a prestigious ISPRS Award, which was established in 1998 to encourage and stimulate submission of high quality scientific papers by individual authors or groups to the ISPRS Journal, to promote and advertise the Journal, and to honour the outstanding contributions of Dr. Uuno V. Helava to research and development in Photogrammetry and Remote Sensing.

The Award is presented to authors of the best paper, written in English and published exclusively in the ISPRS Journal during the four-year period from January of a Congress year, to December of the year prior to the next Congress. The Award consists of a monetary grant of SFr. 10,000 and a plaque. A five-member jury, comprising experts of high scientific standing, whose expertise covers the main topics included in the scope of the Journal, evaluates the papers. For each year of the four-year evaluation period, the best paper is selected, and among these four papers, the one to receive the U.V. Helava Award.

The fourth U.V. Helava Award will be presented at the 22th ISPRS Congress in Melbourne, 25 August-1 September 2012. The jury appointed by the ISPRS Council evaluated the 93 papers of volume 66 (2011) and announced its decision for the Best Paper. The winner of the 2011 Best Paper Award is:

"Modelling and analysing 3D buildings with a primal/dual data structure" by Pawel Boguslawski[1], Christopher M. Gold[2,1] , and Hugo Ledoux[3]

published in issue 2, March 2011, pp. 188–197, http://dx.doi.org/10.1016/j.isprsjprs.2010.11.003


Pawel Boguslawski


Christopher M. Gold


Hugo Ledoux

Jury's rationale for the paper selection

The paper presents a data structure for modeling 3D objects including geometry and topology. It elegantly exploits the duality of volumetric descriptions, also in the case where the world consists of several polyhedra. In this way the authors could construct, represent and analyze buildings as well as their interiors. They also demonstrated that Euler-type operators could be used in this context. The paper is well organised and pleasant to read. The realisation of the data structure gives good prove of the theory. By interfacing with the CityGML standard the work will have a broad applicability and practical impact.

On behalf of the ISPRS and the U.V. Helava Award jury, I would like to congratulate the authors for this distinction and thank them for their contribution. I would also like to thank the sponsors of the Award, and the jury members for their thorough evaluations.

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