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Advances in the area of high-quality interactive 3-dimensional visualizations

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The interactive computer graphics have made astonishing progress in the recent years. The gap between the quality of the real-time CG and the off-line ray-traced graphics is narrowing due to the significant advances in the hardware and software technologies. Instead of relying on the expensive ray-traced CPU computations, the real-time graphics uses the Graphic Processing Unit to achieve high-quality results. Direct 3D and OpenGL application programming interfaces already allow the computations of complex effects and high-quality rendering in real-time and the development of WebGL technologies promises interactive 3D content independent of a particular program. This talk will focus on the advances in the recent technologies used to produce high-quality real-time 3D-graphics, the applications of such interactive technologies and the potential future of the 3D computer graphics.

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The need of deep learning methods to have better image classification: Survey

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As digital images and multimedia in general are making now a vast share of available data, a need for solutions of management is growing as well. And one of the essential management tasks that is demanded by images' management users, is to have a solution to what have been for long termed as symantec gap, which really describes the lack of any system to the ability to use the same level of abstraction of concepts that we humans use, assuming that we have a basic unified abstraction of what we see, and that languages can describe it simply. A trend within the research community of this field is to use deep learning methods to analyse images' contents and use this analysis as a base of images indexing and retrieval. A survey of such methods' classes, with discussion of present and future challenges are being carried out.

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