
THE ROLE OF COMPUTER VISION IN OUR SOCIETY

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Abstract:

Computer peculiarity mentioned in this article. Computer feature of this computer - like the human eye can see, and in any event such as the teaching process.

Keywords: Computer, Vision peculiarity, physiological processes, software, vision, system, performance system, pedagogical technologies.

Introduction

There is a continuity in our country in teaching students at every level of the education system the use of non-traditional methods in addition to traditional methods, new effective from pedagogical technologies, computer and information technologies use, important practical issues in the teaching of natural and social sciences to apply new methods in solving and to develop such methods and improvement is one of the most pressing issues. The Computer vision can also be described as addition to biological vision. Visual perception of the person and different animal are studied in biology with the result that the models of the work of such systems in term of the physiological processes are created. On the other hand, the Computer vision studies and describes the systems of the computer vision, which are executed hardware or software. Interdisciplinary exchange between biological and computer vision turned out to be more productive for both scientific areas.

The Subsections of the computer vision include reproduction of an action, finding event, spying, artificial perception, recovering the scenes and some others.

The Area of the computer vision can be characterized as making look younger, varied and dynamic developing. And though more early work exists it is possible to say that the only intensive study of this problem began with the end 1970-s when computers were able to control processing greater set data such as scenes. However, these studies usually began from the other areas, and consequently, no standard wording of the problem of the computer vision. This even important, no standard wording that how to solve the problem of the computer vision. Instead of this, the mass of the methods for decision different strictly determined problems of the computer vision exists where methods often hang from problems and seldom can be generalized for broad circle of the using. Many of methods and exhibits are else found in the stage of the fundamental studies, but all greater

number of the methods are found using in commercial product, where they often make the part of the greater system, which can solve the difficult problems (for instance, in the field of medical scenes or measurements and checking quality in process of the fabrication). In majority of the practical applications of the computer vision computers are beforehand programmed for decision of the separate tasks, but methods founded on knowledge are becoming more general.

The Physics is the other science, which is connected with computer vision. The main part of the computer vision deals with methods, which requires thorough understanding the process, in which electromagnetic radiation, in the field of visible usually or infrared range, is reflected by surface object and is measured by sensor of the scene to get видеоданные. This process is founded on optometrist and physicist of the hard body. The more complex sensors of the scene even require the knowledge on quantum mechanics for full understanding of the process of the imaging. Here, different problems of the measurements in physicist can be resolved, using computer vision (for instance, referring to motion in liquid).

The Third area of the science, which plays the important role, is neurobiology, particularly study of the systems of the biological vision. The greater studies eye have been organized for the last century, neuron and structures of the brain, referring to processing the visual irritants both in person, and in different animal. This has brought about rough and complex description that, what work "real" systems of the vision that helped to solve some tasks. The Results of these studies have brought about making the artificial systems, imitating functioning and operating the similar biological systems on different level of the difficulties. Besides, some methods of the study, designed in the field of computer vision, are obliged by its origin to biology. One more area, connected with computer vision, is a processing signal. Many methods of the processing identical signal, usually temporary signal, can be a natural way extended for processing two-dimensional or multivariate signal in computer vision. However because of various natures of the scenes exists much methods, designed in the field of computer vision and not having analogue in the field of processing identical signal.

Aside from mentioned approach to problem of the computer vision, many of investigation questions can be studied with purely mathematical standpoint. For instance, many methods are founded on statistics, methods to optimization or geometry. Finally, greater functioning are guided to area of the practical application of the computer vision - that, as existing methods can be marketed software and hardware or as they can be changed to reach the high velocity (speed) of the functioning without essential increase of consumed resource.

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