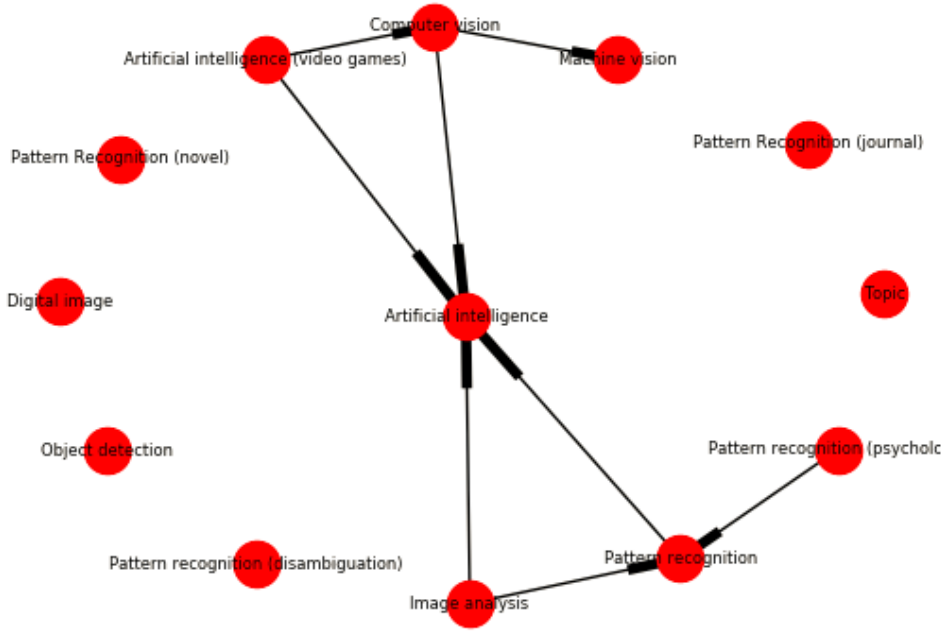
From the perspective of engineering, computer vision seeks to automate tasks that the human visual system can do. Areas of artificial intelligence deal with autonomous planning or deliberation for robotical systems to navigate through an environment. A detailed understanding of these environments is required to navigate through them. Artificial intelligence and computer vision share other topics such as pattern recognition and learning techniques. Consequently, computer vision is sometimes seen as a part of the artificial intelligence field or the computer science field in general. The classical problem in computer vision, image processing, and machine vision is that of determining whether or not the image data contains some specific object, feature, or activity. Different varieties of the recognition problem are described in the literature like object detection. The fields most closely related to computer vision are image processing, image analysis and machine vision. There is a significant overlap in the range of techniques and applications that these cover.

(a)

Pre-requisite Graph Enrichment



(b)

Definition Enrichment

DEFINITION: Computer vision is an interdisciplinary field that deals with how computers can be made for gaining high-level understanding from digital images or videos.

(c)

Application Enrichment

APPLICATION: Applications range from tasks such as industrial machine vision systems which, say, inspect bottles speeding by on a production line, to research into artificial intelligence and computers or robots that can comprehend the world around them. Computer vision covers the core technology of automated image analysis which is used in many fields.

(d)