

Why study computer vision? As image sources multiply, so do applications Relieve humans of boring, easy tasks Enhance human abilities: human-computer interaction, visualization Perception for robotics / autonomous agents Organize and give access to visual content Goals of vision research: Give machines the ability to understand scenes Aid understanding and modeling of human vision Automate visual operations



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How hard is computer vision?



"In 1966, Minsky hired a first-year undergraduate student and assigned him a problem to solve over the summer: connect a television camera to a computer and get the machine to describe what it sees." Crevier 1993, pg. 88

Marvin Minsky, MIT Turing award,1969

Adapted from Linda Shapiro, U of Washington

How hard is computer vision?



Marvin Minsky, MIT Turing award,1969

6



(the undergraduate) "You'll notice that Sussman never worked in vision again!" – Berthold Horn

Adapted from Linda Shapiro, U of Washington

6







































Slice of lung

Adapted from Linda Shapiro, U of Washington 26









Medical image analysis

26





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