Competer Vision " . J . d 112.08.2023 Faculty: Karaya 7 Hunau Vision. Seing) 5 (Processing) [hite Wigens Levision] Computer Vision. Camera Paocerning Pottern Recognistan
AI algorisam Mothematics in CV → Calcular - Linear Alguera. - Prob. & Stats. -> Signal Placering. > Projective granding. > Optimization Theory. - Class & Applications: > Medical image analysis, Document understanding, Abriel impersons, precission manufacturing, Content management, Product discovery, Damage assessment, agricultural coop/per analysis, Environmental conservation, warehouse automation construt moderation, deological analysis etc. High lund. Mid level trave terrel Process Attributes. huga Understanding-Imput: amouge Actri butts Output. Image Autonorous as. Signentialin Nois mpper.

into only cutupotations the output to made. > Analysis: Synthesis: Vision take image as input and outfut. , Image would as. [hebyt, width, (color pixelochand)) Cps (640, 460, (100, 200)) -) Distance between the lines and the object is called frest lugar. > Object gots inverted. - absorption, 1-p Lamberts crime law: Amount of reflected light proportion to cosine(0). of Two types of procestion 1) Perspective 10 Parallel. - hurage sampling and quantization: Mote: - If wandergth (A) increase free descens If freq incremes to I decreases.

Sampling & Quantization. Oliginal. After sampling After sampling reconstruction of the original ludge is drat possible this is called aliasing fsa ≥ 2 (moverfreq.) The avoid allowing exir 2 2 2 (3) Shamois sampling tury x = 6. get the mapping the Continuous renge of value B Quantizationto finite range of natures (Diojital)-BH range -2 bytes = 16 bits. 2 or lbyte = 8 bits - = 2 0 1 2 3 July 6 7 4

Image Enhancement Technique: Point processing) Chauping of indirect value Intensity Transformation Changing in Chaire Chanoping all the pixeds values. Intering Transformation 10 hinear transformation. Thog transformation. Lob Power Law transformation. Imagor enhance linear transformen. S = T (r) old image. new mage function J=L-1-r exir if L=10. apixel value in r=3. tum J= 10-1-3=6