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Experiment 4 - CV

Q1)

Ans1)

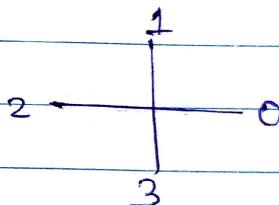


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Q2)

Ans2) DIFF : 313133003

Shape n : 003313133



Q3)

Ans3)i) Chain code is not inherently translation scale or rotation invariant.

(ii) Translation Invariance :

Chain code representation are sensitive to translation because they encode the sequential order of boundary pixels shifting the object positions would result in diff chain code.

iii) Scale invariance: Chain code representations are not scale invariant because changing the scale of object alters the distance boundary pixels, affecting chain code.

iv) Rotation invariance:

Chain code representations are also not rotation invariant, because rotating the object changes the orientation of its boundary pixels leading to a different chain code.

(Q4) What are different applications of chain code.

Ans4)

- Shape recognition
- Handwriting recognition
- Object detection
- Signature verification

T.Y. B.Tech. (ECE) Academic Year 2023-24 Semester: VI
Continuous Assessment Rubric

COURSE: Computer Vision (ECE4026B)

EVALUATOR: J. A. Lele

STUDENT:

EXPT NO.:

DATE:

DIMENSION	SCALE					SCORE (25)
	1	2	3	4	5	
Regularity and punctuality	Submitted without performance	Performed late and submitted later than scheduled date with permission	Performed on schedule; submitted two weeks late	Performed on schedule; submitted one week late	Performed and submitted as per schedule	5
Overall Understanding of experiment	Neither shows any understanding of the experiment nor can relate it to theory.	Objectives are not clear.	Can only state the objective but shows poor understanding	Understands objective but cannot place it in context of a theory topic	Understands objective and can relate it to an appropriate theory topic	5
Understanding the Procedure	Cannot follow the procedure	Follows the procedure half heartedly	Follows right procedure but cannot analyze data	Follows right procedure but can analyze data and interpret it without justification	Follows right procedure, can analyze data and interpret it with justification	5
Experiment Skills	Does not participate in experiment	Performs the experiment only with the help from supervisor/others and is confused.	Performs the experiment with some supervisory help but not keeping record.	Performs experiment on own without supervisory help, keeping record partially	Performs experiment on his/her own without supervisory help; records all readings properly. Keeps the setup clean.	5
Ethics	Copies the results from others	Completes the result analysis with help from others but forgets to acknowledge the help.	Completes the result analysis with help from others and acknowledges the help.	Produces his own result analysis but tries to manipulate	Produces his own result analysis faithfully and owns up the results without any manipulation	5

Student's signature with date:

Total

25

Teacher's signature with date:

*Nand
B1cel2k*