AI772: COMPUTER VISION
(Assignment - II)

Duration: 1 Week Total Marks: 20

Write a 5-page technical report on any **ONE** of the following. Use the LaTeX 2_ε style file given on the course home page. Your report should contain the following sections:

Introduction: should contain the precise problem definition; why it is important in Computer Vision; at what level is it? how old is the problem, etc.

Early methods: should describe the methods that provide simple solutions and may fail to handle any of the complex cases and noise

State-of-the-art: should describe the current methods and what are the cases that they can handle successfully and for which cases they fail

Favourite Method: pick one of the methods and describe it in detail. Make sure you list who proposed it and who improved it if any

Discussion and analysis: a short section that says why you like the method in the previous section; its strengths and weaknesses; extra credit if you can say how you may improve it — no details are necessary but you should present your idea convincingly

Conclusion: state briefly (again) why you consider the problem important and how solving it can help computer vision

LIST OF TOPICS

1. Simulated annealing
2. Active contour models
3. Relaxation labelling
4. Face recognition
5. Convolutional Neural Networks
6. Aspect graphs
7. Geometric hashing
8. Spin images