Digital Image Processing: Examination questions

J. Matas

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1. Describe components of an image acquisition system.

2. What is the response of a sensor with given spectral sensitivity r(A) to incident light with spectral power distribution I(A)?

3. Describe the monochromatic reflectance model.

4. Under the monochromatic reflectance model, how would RGB colours of a single pixel change if the light source moved?

5. Describe the dichromatic reflectance model.

6. Under the dichromatic reflectance model, how would RGB colours of a single pixel change if the light source moved? Draw a diagram in the RGB space.

7. Describe the Lambertian reflectance model.

8. Define specular/diffuse/surface/body reflection.

9. Can light be reflected diffusely by surface reflection?

10. Can light be reflected specularly by body reflection?

11. What are the advantages/disadvantages of the HSV (Hue-Saturation-Value) colour model?

12. In what application would you use a uniform colour space, such as Lab or Luv?

13. Write down the formula relating world and image coordinates of a point in 3D and its 2D projection. Assume a projective (pinhole) camera.

14. Compute parameters of a planar projective transfromation from 4 point correspondences.

15. Compute parameters of a planar affine transfromation from 3 point correspondences.

16. Compute parameters of the best (in the least-square sense) planar affine transfromation from $n > 3$ point correspondences.

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rhône et loire wikipédia - May 08 2022

web la carte réalisée en 1800 du département rhône et loire le rhône et loire recouvrait l actuel département du rhône et la métropole de lyon y compris la commune de la guillotière à l exception cependant des communes suivantes

loire department wikipedia - Mar 18 2023

web loire is part of the current administrative region of auvergne rhône alpes and is surrounded by les départements of rhône isère ardèche haute loire puy de dôme allier and saône et loire the river loire traverses the department from south to north

département rhône wikipedia - Feb 05 2022

web das département du rhône ist das französische département mit der ordnungsnummer 69 es liegt im südosten des landes

in der region auvergne rhône alpes und wurde nach dem fluss rhône benannt inhaltsverzeichnis 1 geografie 2 geschichte 3 wappen 4 verwaltungsaufbau 5 weblinks 6 einzelnachweise geografie

auvergne rhône alpes wikipédia - Apr 07 2022

web auvergne rhône alpes est une région administrative française située dans le quart sud est de la france métropolitaine elle est créée par la réforme territoriale de 2015 en date du 1 er janvier 2016 à la suite des élections régionales des 6 et 13 décembre 2015 regroupant les anciennes régions auvergne et rhône alpes elle se compose de 12 départements et

carte loire plan de loire et infos pratiques mappy - Dec 15 2022

web le département de la loire est un département de la région auvergne rhône alpes il doit son nom au fleuve qui le traverse du sud au nord sur plus de 100 km les principales villes du département sont saint etienne la préfecture saint chamond et roanne

loire wikipedia - Jan 16 2023

web the loire gives its name to six departments loire haute loire loire atlantique indre et loire maine et loire and saône et loire the lower central swathe of its valley straddling the pays de la loire and centre val de loire regions was added to the world heritage sites list of unesco on december 2 2000

rhône department wikipedia - Jul 10 2022

web rhône french pronunciation arpitan rôno is a department of east central france in the central southeastern auvergne rhône alpes region named after the river rhône its prefecture is lyon

carte départementale n 327 loire rhône michelin - Jun 21 2023

web carte routière de la loire et du rhône éditée par michelin carte détaillée incluant un index des localités des suggestions d itinéraires les pistes cyclables et voies vertes sélection des plus beaux sites petit plan de lyon et st etienne en encart echelle 1 150 000 1 cm 150 m isbn ean 9782067202290 date de publication 2022

departments of france wikipedia - Sep 12 2022

web departments are further subdivided into 333 arrondissementsand 2 054 cantons as of 2023 1 these last two levels of government have no political autonomy instead serving as the administrative basis for the local organisation of police fire departments as well as in certain cases elections

département de la loire 42 présentation localisation carte - May 20 2023

web rhône 69 isère 38 ardèche 07 haute loire 43 puy de dôme 63 allier 03 et saône et loire 71 localisation et carte du département de la loire 42 le département de la loire 42 se situe au centre nord de la région auvergne rhône alpes

carte département de la loire auvergne rhône alpes france mapcarta - Jun 09 2022

web roanne est une commune française située dans le département de la loire en région auvergne rhône alpes mapcarta la

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web la carte michelin loire plan de ville carte routière et carte touristique loire avec les hôtels les sites touristiques et les restaurants michelin loire

liste des 12 départements de la région auvergne rhône alpes - Oct 13 2022

web haute savoie 74 fiche département liste des communes isère 38 fiche département liste des communes loire 42 fiche département liste des communes puy de dôme 63 fiche département liste des communes rhône 69 fiche département liste des communes

loire carte plan departement de la loire 42 carte france - Aug 23 2023

web le département de la loire appartient à la region rhône alpes le département de la loire porte le numéro 42 et est composé de 3 arrondissements 40 cantons et 327 communes plus bas vous trouverez la carte de france de la loire ainsi que la carte satellite de la loire

département de la loire 42 département de la loire - Aug 11 2022

web site internet du département de la loire en rhône alpes présentation de l institution des loisirs des actions culturelles et sportives de l activité to

liste des départements français wikipédia - Nov 14 2022

web carte des départements français et divisions territoriales assimilées note 1 article principal département français cet article présente la liste des 101 départements français actuels ainsi que les principaux indicateurs les caractérisant

loire département wikipédia - Jul 22 2023

web carte linguistique de la loire selon l atlas sonore des langues régionales 2022 vert francoprovençal jaune orangé nord occitan le département connaît deux grandes langues traditionnelles