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ACADEMIC YEAR 2019-2020



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3.3 RESEARCH PUBLICATION AND AWARD

3.3.1.: NUMBER OF RESEARCH PAPERS PUBLISHED PER TEACHER IN THE JOURNALS NOTIFIED ON UGC CARE LIST DURING THE LAST FIVE YEARS

Sl.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
1	Soil Respiration in subtropical mixed disturbed forest and undistubed mixed oak forest of Manipur, North- Esatern India.	Phurailaypam Apsara Devi	Botany	International Journal of Science and Research (IJSR), VOL.9, Issue Nov.2020	2019	ISSN: 2319- 7064
2	A SURVEY ON IMAGE AND VIDEO UPSCALING AND MEASURING MATICES	Oinam James	Computer Science	Journal of Critical Reviews	2020	ISSN- 2394- 5125 Vol 7, Issue 13, 2020





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International Journal of Science and Research (IJSR) 155%; 2319-7864 SATE (2019): 7,583

Soil Respiration in Subtropical Disturbed Mixed Pine Forest and Undisturbed Mixed Oak Forest of Manipur, North-Eastern India

Ph. Apsara Deel', L. J. Singh'

absorbers, P.O. Department of Bolancy, D.M.C of Science, Septial SMR001, Sedia

is Laboratory. If D. Department of Borary, D.M.C. of Science, Liberta, -735001. India

ADSTRACT Securical changes to not requirestion and its relationship with advance arriphter was smallest in indicated mixed plane forcist and attribute their relationship and Separation ACL, Comparis Engine. Machine to accomplish a distraction of 2.5 data and 10 feet remarkship from the Engine Lie Engine Law Stockness Edit at 24.99 AC highest and 10.5 feet to indicate a distraction of the 2.5 data and 10 feet and 10 feet to 10

Keywards: Solveparation, disturbed missel pour clouds

t. Introduction

Soil conjunction is defined as the term CO production in intact soils resulting from the responsible of seed magnetization in costs and incorrected 11.32 a metal parameter for staticing soil trodugical software carbon working and energy flow in an economic of a size also considered in an organisation interpolation of the decomposition watern (Single and Oughts 1977) Highwarest et al (2004) staticited soil important index of the decomposition watern (Single and Oughts 1977) Highwarest et al (2004) staticited soil important in trappolar finest of morthern Thailand and respectation was relatively high during the rates possess and they during dry someon, although inter-annual fluctuation were large. Linchests of all 2002, Highwarest and Yadawa 2003) statical and respectation in refundacial information is available on systemation forest but trained information is available on systematic formation in refundacial factuated plus and undisturbed insection in substances of the substances and authorities in substances of the substances of the substances and authorities in substances of Maniput.

2. Study Area

The forces sets is to stand as Modbang that has an 24 00% and 0.1 00°C, at an attende of 270 or Governing means and beyon and the forces sets to a bounced at Supermental that has at 25 04°N mat 31 04°N at an attende of 933 in from the opening to be to the attende of 133 in from the opening attended in the study stees 1131.8 mm. the mean rooteth's maximum ranges from 4.0°C (December) to 28.8°C (July) during the study period as above to figure 1.

The desturbed mixed prins forest sets I as dominated by Pierra Kherrigar Rowlin Hambliner survivation Furblish 2006 tradition of survivation and herbs-spectra. The domination are some that to esturating of surface printing and other strength and other services and other survivations. The dominated of surface and other survivations are survivationally destroyed activated by Charmes activated to the survivation of the survivation

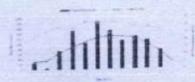


Figure 1: Climent date of the made period

3. Materials and methods

The and samples were collected formula upper 1350 of 0 on in depth at monthly stress all and brought to the laboratory for further analysis. The soil samples were sized (Zeori) to conserve mottes costs at Nost terries with the property and the popular method. A soil the thomselve wind in different to good only and to grant with a different wind seal in different each temperature. The soil constants with the properties of the soil constant weight). Soil pH was determined by Walkley Black method total nitrogen by Kridahl method. Phosphiarrous by unslybdermy blue control (Analyzaes and Ingiam. 1993). Personners was estimated by Flame photometer (Jackson, 1984).

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A SURVEY ON IMAGE AND VIDEO UPSCALING AND MEASURING MATICES

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Abstract image upscaling takes a key role in the field of brage processing to enhance the image and video resolution for Super Resolution (SR) in the devices such as computer system as well as in secar phone. Nowadays many remarkable machine learning based techniques of image RS are being developed, in this paper a survey on current advanced image SR techniques which use the machine learning approaches with a systematic way is presented, it is also presented other topics regarding metrics along with publicly available benchmark datasets for evaluation of the performance. Here we give the conclusion for this survey after evaluation of the results by highlighting the merits and demerits of the techniques along with potential directions.

Keywords: Image Super-resolution, Image Upstaling, Mathine Learning, Convolutional Neural Networks (CNN)

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Digital photography takes a huge part of our everyday lives and we desperately need better picture quality, higher resolution and more functionality. Images having many number of pixels as-much as possible within a given size of the image is called High resolution (HR) image.

resonation (the) image.

Therefore, a high quality photo provides important critical information usually for applications in various Security and civil application like surveillance monitors, medical imaging, target identification etc. However, using higher image sensors and option is a steeply-priced and additionally proacriting manner of increasing pixel density in the photo.

An image and video scaler/up-sampling is a system converting image/video signals from one resolution to another resolution fooders are usually used to transform a lower resolution signal like 480puni standard defination to a higher quality resolution. like 1080pixel high definition and the process is known as "upconversion" or "up-scaling". In contrast, converting from high to low resolution is known as "down-conversion" or "downscaling".

low resolution is known as "down-conversion" or "downscaling". The operation within associates the estimation of a fina-resolution image/video from a rough resolution input image/video is often termed as image/video frame upsampling. Since it can recover sharp edges and textures by suppressing pixel blocking mases anomalies like noises and other visual artefacts from the coarse-resolution input image, it becomes an important imaging research topic in image processing.

important imaging exearch topic in image processing. Soal of image and video frame up sampling is to enlarge the dimension of the picture or video frame by maintaining the inherited information of the input image/video. So the term upsampling/upscaling of image or video frame refers to a process which tries to achieve a high quality Resolution pictures intrough the input love Quality Resolution (LR) pictures or multiple Low Quality Resolution pictures widdin the same scene. Human can interpret image or video scene only on maproved detail of the scene and it can be provided by HR image/video.

Furthermore, this to physical and seonomical immutions of camerac, higher resolution camera cannot be used in on-board circuit of satellite. A LR image/video carries less information and it is named by lose establishmenta. Image and video upsampling process along to create such a High-Quality Resolution pictures and video from the available input low Quality Resolution picture with a low cost imaging device.

UP-SAMPLING METHODS

Up-sampling of an image, image frame video might be classified in the following ways.

Easted on Interpolation up Scaling

1. Interpolation using Nearest Neighbor.
In this type of up scaling interpolation, when resume the image or image frame the missing pixels are substitute with the nearest pixel of the missing pixel.





(b) 7x7 op Sampled Image with Pittating Pixels

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