

Dynamic Resource Scheduling in Mobile Edge Cloud with Cloud Radio Access Network

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Abstract

- ▶ Impulse noise corruption in digital images frequently occurs because of errors generated by noisy sensors or communication channels, such as faulty memory locations in devices, malfunctioning pixels within a camera, or bit errors in transmission.
- ▶ Although recently developed big data streaming enhances the viability of video communication, visual distortions in images caused by impulse noise corruption can negatively affect video communication applications.
- ▶ Additionally, sparsity, density, and multimodality in large volumes of noisy images have often been ignored in recent studies, whereas these issues have become important because of the increasing viability of video communication services.
- ▶ To effectively eliminate the visual effects generated by the impulse noise from the corrupted images,

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Proposed

- ▶ To effectively eliminate the visual effects generated by the impulse noise from the corrupted images, this study proposes a novel model that uses a devised cost function involving semi supervised learning based on a large amount of corrupted image data with a few labeled training samples.
- ▶ The proposed model qualitatively and quantitatively outperforms the existing state-of-the-art image reconstruction models in terms of the denoising effect

HARDWARE REQUIREMENTS

- ▶ Processor :Intel Pentium IV 1GHz
- ▶ RAM :256MB (Min)
- ▶ Hard Drive :5GB free space
- ▶ Monitor :1024 * 768, High Color inch
- ▶ Mouse :Scroll Mouse(Logitech)
- ▶ Keyboard :104 keys

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SOFTWARE REQUIREMENTS

- ▶ OS : Windows XP/7/8
- ▶ Front End : Visual Studio 2010/ netbeans 7.1
- ▶ Back End : SQL Server 2005/ heidisql 3.2
- ▶ Browser : Any Web Browser

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Conclusion

- ▶ This paper presented a new image reconstruction model for the IN removal problem.
- ▶ The imaging characteristics of large volumes of noisy images were analyzed. Three categories of features, namely global, local, and social contexts, and their combinations were proposed in the linear model.
- ▶ The calculation of the parameters of the proposed model by using the semisupervised cost function enables the proposed model to robustly manage the reconstruction of noisy images from a large volume of imaging data suffering from the problems regarding Sparsity, Density, and Multimodality.
- ▶ The qualitative and quantitative assessments demonstrated that the proposed model is capable of generating visually pleasing images from large-scale image sets.

Reference

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