Research & Development Profile

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Experience: 6 Months

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Department of Computer Engineering

M.E. Project

[2014-2015]

Self Similarity based Image Segmentation

- Segmentation are done by obtaining self similarity in an image which is recognise by SSIM index
- In first step reading of image is done after that partitions(non overlap) of image is done to which we indicate it as Range Block(RB)
- Then next step done partitions(overlap) of image with pixel size double of Range Block is indicated as Domain Block(DB)
- Then done shrunk of domain block which we can say it Shrunk Domain Block (SDB)
- Then obtained eight transforms of each SDB to which we indicate TSDB
- Then do matching of each RB with each TSDB for obtaining self similarity in the image

B.E. Project   [Jan-May 2012]

Cryptography using AES (Advance Encryption Standard) Algorithm

- Encryption of data protects data by preventing unauthorized alteration of use against unauthorized parties
- Secrete key was created which is used at the time of Encryption of files and at the time of decryption the same key is necessary

- Audio Data, Video Data, Text File and Images were used for Encryption and Decryption
- The plain data was converted into a cipher text after applying Encryption to make it unreadable and secure from the alteration of unauthorised parties. This data now can be sent to the receiver.
- Receiver can obtain original data file by applying decryption on received cipher text.

EXTRA CURRICULAR ACTIVITIES

- Presented paper on **Cryptography using AES(Advance Encryption Standard) Algorithm** in **TECHFEST 2012** in JDIET, Yavatmal
- Presented paper on **Fusion Methodology to Sonification of Color Image** in **TECHFEST 2012** in JDIET,Yavatmal
- Represented the institute in INTER-COLLAGE TOURNAMENT of **CRICKET** organized by Santa Gadge Baba Amaravati University **[2010-2011]**
- Participated in a dance competition conducted in Annual Social Gathering **Euphoria-2010,2011,2012** in JDIET,Yavatmal
- Secured **2nd position** in a dance competition conducted in Annual Social Gathering **Euphoria-2011**
- Participated in a dance competition conducted in Annual Social Gathering **Enggjoy-2014** in PRMCEAM, Badnera, Amravati