DEEPAK PAL

Project Associate
Department of Electrical Engineering
Indian Institute of Technology, Kanpur
pdeepak@iitk.ac.in, deep.imhere@gmail.com
http://www.iitk.ac.in/mwn/deepak/index.htm
+91- 9415770233

CAREER VISION

To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields and realize my potential where I get the opportunity for continuous learning

RELEVENT EXPERIENCE

Department of Electrical Engineering, Indian Institute of Technology, Kanpur, India   Dec, 2010 – Present
Project Associate   Prof. Aditya K. Jagannatham, Multimedia Wireless Networks Lab, IIT Kanpur

- Developed robust MPEG encoder in MATLAB and C that performs streaming of live videos over wireless network
- Set up a wireless link, supporting radio data rate up to 250 kbps for transmission of images and small sized video using TELOS B motes on TINY OS platform using JAVA
- Developed H.261 video encoder and decoder on MATLAB Platform
- Performed study of JSVM (Joint Scalable Video Model) for h.264 compliant bitstream generation and transmission
- Currently developing H.264/SVC codec to achieve video streaming of live events on IIT Kanpur campus wireless infrastructure

Department of Electrical Engineering, Indian Institute of Technology, Kanpur, India   Aug, 2010 – Nov 2010
Project Fellow   Prof. Aditya K. Jagannatham, Multimedia Wireless Networks Lab, IIT Kanpur

- Developed GUI for transmission and reception of digital images over AWGN and RAYLEIGH channel with noise filtering mechanism at the receiver on MATLAB Platform
- Performed extensive work in video motion estimation, morphological image processing, aliasing, transform coding, 2D sampling, filtering and interpolation
- Developed JPEG encoder and decoder on MATLAB platform

TECHNICAL SKILLS

Languages
- MATLAB   (*EXPERT, 3 Years*) | C   (*ADVANCED, 2.5 Years*)
- HTML, CSS, JAVASCRIPT (*MEDIUM, 6 months*) | Verilog (*FAMILIAR, 3 Months*)

Tools and Libraries
- Visual Studio | Eclipse | Dreamweaver | Xilinx IDE | Cygwin
- GNU Scientific Library | Open CV | JRTP

Operating Systems
- Windows - 7, Vista, XP | Linux – Ubuntu

EDUCATIONAL QUALIFICATIONS

Bachelor of Technology in Electronics and Communication Engineering (UPTU, Percentage - 70.02 %)
Galgotias College of Engineering and Technology   Aug 2006 – Jun 2010
Intermediate (UP Board, Percentage – 79.4 %)
Lucknow Public Inter College   May 2004
High School (UP Board, Percentage – 65.8 %)
St. Peters High School   Jun 2002

PROJECTS

MULTIMEDIA TRANSMISSION OVER WIRELESS   Nov 2010 – Present
Details

- Objective - Implement a video coding standard to enable transmission and unpacking at multiple spatio-temporal resolutions with variegated bitrates so as to make video streaming readily suited for wireless networks