

Minutes of RS meet

24th Nov 2006

RSs Present

1. Jayalakshmi
2. G.S. Biradar
3. P. B. Bansod
4. Amol Patil
5. Suwendu Gorai
6. Deepthi Chander
7. Bhushan Jagyasi
8. N. V. Marathe and
9. G. Kannan.

Research area/ application/

S.No	Name of the Research scholar	Application/ Problem	Theoretical / Mathematical Frame work	Implementation Techniques.
01.	Prashant Bansod.	Echo cardiography image processing segmentation, LV analysis	<ol style="list-style-type: none"> 1. Low level processing 2. Adaptive segmentation techniques. 3. Knowledge base tools 4. 3D reconstruction 	Matlab, FEM c++
02.	Bhushan Jygyasi	Distributed detection/decision fusion in WSN	<ol style="list-style-type: none"> 1. Statistical signal Analysis 2. Estimation 3. optimization 4. channel simulation 	Matlab, tinyos TOSSIM
03.	Ms. Deepti chander	Underwater communication	<ol style="list-style-type: none"> 1. Modulation Th. 2. Simulation of channels 3. Receiver design 4. Multiuser detection 5. multirate SP 6. Monte Carlo 	Matlab
04.	N.V. Marathe	Multihop cellular networks	<ol style="list-style-type: none"> 1. channel modeling 2. queing theory 3. Probability Th. 4. optimization 	MATLAB, NS2 opnet, gannet
05.	G. Kannan	Multihop cellular network	<p>b. -"</p> <p>+ Graph theory</p>	-" 8 c++

S.NO	Name of Research Scholar	Application/ Problem	Theoretical/ mathematical problem	Implementation Tools
06	Ms. Jayalakshmi	Watermarking/ copyright protection	Detection, source coding	MATLAB
07	Amol patil	Functional Brain Monitoring using DOT & EEG imaging	Large scale inverse Problem / optimization	MATLAB FEMLAB
08	G.S. Biradar	UWB communication Multiple access	Multiple access theory, multiuser detection Probability Th. Channel simulation Modulation Techniques	MATLAB
09	Surendu Kumar Gorai	Image & video retrieval & mixing	Signal processing Statistical analysis probability Th	MATLAB

Theories / Framework & Tools in Common

Optimization

Channel modeling

Probability

Statistical Analysis

MATLAB / C++ integration &
advanced features (Need)

- Coding theory

Multirate signal processing

- Monte Carlo

- Simulation

Next meeting

G. S. Biradar will guide to discuss on derivation of BER for given channel SNR for particular model. We will start with basic probability theory used then focus on the said problem.