

Rahul Chitturi

Speech Lab, LTRC
IIT Hyderabad, INDIA
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OBJECTIVE To pursue a high quality research in speech technology.

Degree	College	Percentage
B.Tech in CSE (2006) <i>(Honors in speech)</i>	IIT, Hyderabad	8.5/10 (CGPA)
Senior Secondary(2002)	Ratna Junior College, Hyderabad	87%
Secondary (2000)	A.P.P.M. High School, Rajahmundry	85%

ACHIEVEMENTS

- A Prestigious Grant was approved by International Speech Communication Association to attend **SPECOM 2005**, which is usually awarded to **2-3** young scientists from India and **50 - 60** worldwide.
- A Grant was approved by **RANLP 2005** under Marie Curie Large Conference contract to attend the conference which was awarded to **26** young scientists worldwide.
- A grant is going to be approved by Central Institute of Indian Languages to attend **ICON 2005**- the 4th International Conference on Natural Language Processing
- Awarded a prestigious **Pratibha Scholarship** 2002 by state government of Andhra Pradesh, India for excellence in IIT-Hyderabad.
- A warded Dean's merit list (top 5%) scholarship for **3rd 4th and 6th** semesters at IIT-Hyderabad

PUBLICATIONS

- *“Change Detection: Temporal Refinement of Phoneme Boundary Times”*, submitted to **HLT-NAACL 2006** - Human Language Technology conference - North American chapter of the Association 2006
- *“Rapid methods for Optimal Text Selection”* Accepted at **RANLP 2005** – Recent Advances in Natural Language Processing
- *“Lexical Modeling for Non Native Speech Recognition using Neural Networks”* Accepted at **ICON 2005** - International conference on Natural Language Processing
- *“Development of Indian Language Speech Databases for LVCSR”* published in the proceedings of **SPECOM 2005** - 10th International Conference on Speech and Computer
- *“Novel approach of Domain Specific Ellipsis Handling in Question Answering Systems”* published in the proceedings of **SPECOM 2005**
- *“Divide and conquer approaches for Domain Specific Speech Recognition”* published in the proceedings of **SPECOM 2005**
- *“A Performance Model for Evaluation of Process Scheduling Scheme”* published in the proceedings of **ICSCI 2005** – International Conference on Systemics, Cybermatics and Informatics

ACTIVITIES

- Reviewer of **ICON 2005** student papers
- Student Member of **ISCA** (International Speech Communication Association)
- Student Member of **IEEE** (Institute of Electrical and Electronics Engineers)
- Student Member of **CSI** (Computer Society of India)

INTERESTS

- Speech Technology
- Robotics
- Natural Language Dialog Systems
- Pattern Recognition

WORK EXPERIENCE

HEWLETT PACKARD LABS, Bangalore, INDIA

- Summer Internship (April-May 2005)
- Research Assistantship (June-March 2004)

IIIT- HYDERABAD, INDIA

- Teaching Assistant for the course “Intro to Speech Technology” (July-Nov 2005)
- Teaching Assistant for the course “Topics in Speech Processing”(Nov’05-April’06)
- Research Assistantship at Language Technology Research Center (May - July 2005)
- Summer Internship at Building Science Research Center (April-June 2004)

COMPUTER SKILLS

- Programming Language: C, C++, Java, Prolog, Lisp, Perl
- Operating Systems: UNIX, MS Windows

RELEVANT COURSES

Digital Signal Processing (A)	Intro to Natural Language Processing (A)
Designing Speech Systems (A)	Natural Language Dialog Systems (A)
Artificial Intelligence (A-)	Topics in Speech Processing (Tutor)

PROJECTS

- **Landmark based speech Recognition (In collaboration with UIUC)**
Abstract: This project aims at developing Landmark based speech recognition. This involves developing algorithms for Speech Segmentation and then developing Speech Recognition Systems using SVM-HMM hybrid systems.
- **Automatic Speech Recognition Systems for Indian Languages (with HP Labs, CMU)**
Abstract: This project aims at developing a speech recognition system for Indian languages. We have developed Speech Recognitions Systems for Telugu, Tamil and Marathi (*The first speech recognition systems for these languages*).
- **Spoken Language Dialog Systems**
Abstract: This project aims at developing Dialogue Systems with Speech Interface where the users can directly communicate with the computer for ticket booking or enquiring at a Railway Station.
- **Ellipsis Handling in Question Answering Systems**
Abstract: This is a part of the Question Answering System that is developed by IIIT for Railway Reservation Systems, which takes care of the Ellipsis in the queries.
- **Robust optimal target tracking algorithm for mobile robotics**
Abstract: This project involves the investigation of the possibility of reducing the search space of all possible sensor trajectories of the robots
- **Database Management System for an Airline Reservation System**
Abstract: Developed a Database Management system for an Airline Reservation system

EXTRA CURRICULAR ACTIVITIES

- Member of Mess committee
- Organized Technical Events in our annual techno-cultural fest - Felicity 04 & 05
- Won many prizes in Inter-university competitions held by prestigious Institutes

REFERENCES

- Prof. Mark Hasegawa Johnson, Beckman Institute Co-PI,
 Illinois Speech and Language Engineering, UIUC E-mail: jhasegaw@uiuc.edu
- Prof. Rajeev Sangal, Director, IIIT-Hyderabad E-Mail: sangal@iiit.net
- Prof. G.Ramamurthy, Associate Professor, IIIT-Hyderabad E-Mail: rammurthy@iiit.net