

X

NPTEL

reviewer4@nptel.iitm.ac.in ▼

[Courses](#) » [Advanced IoT Applications](#) [Announcements](#) [Course](#) [Ask a Question](#) [Progress](#) [FAQ](#)


Unit 7 - Speech to text processing

Register for
Certification exam

Course outline

How to access
the portal

MATLAB Online
Access and
Learning
Modules

Localization in
IoT - Part 1

Localization in
IoT - Part 2

Sensors and
protocols for
next generation
automobiles

Automotive IoT

Speech to text
processing

- ☒ Speech to text processing Part -1
- ☒ Speech to text processing Part -2
- ☒ Speech to text processing Part -3
- ☒ Speech to text

Week 5 Assessment

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2019-03-06, 23:59 IS



1) A speech recognition system developed to operate for any speaker is 1 point

- ☐ Speaker dependent system
- ☐ Speaker independent system
- ☐ Speaker adaptive system
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Speaker independent system

2) Which speech recognition system is difficult to handle? 1 point

- ☐ Isolated speech recognition system
- ☐ Continuous speech recognition system
- ☐ Small vocabulary speech recognition
- ☐ None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Continuous speech recognition system

3) Why is speech recognition challenging on a mobile device? 1 point

- ☐ Consume a lot of energy during algorithm execution
- ☐ Low processor clock frequency
- ☐ Limited available storage space

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of



NPTEL

National Programme on
Technology Enhanced Learning

In association with



Funded by

monitoring	4) Most commonly used statistical technique to build a good acoustic model in speech recognition	1 point
Case studies		
Text Transcripts		
DOWNLOAD VIDEO		
Interaction Session		

ce De

☐ Finite state automata

☐ N-gram model

☐ Hidden Markov model

☐ None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Hidden Markov model

5) HMM can make transitions in:

☐ Only forward

☐ Only forward

☐ Both forward and backward

☐ No transition required

No, the answer is incorrect.
Score: 0

Accepted Answers:
Only forward

6) For re-constructing a sentence from the decoded words, we use:

☐ N-gram model

☐ HMM model

☐ GMM model

☐ Bayesian model

No, the answer is incorrect.
Score: 0

Accepted Answers:
N-gram model

7) In speech recognition pruning your language model with limited vocabulary leads to the following

☐ Generalise your ASR

☐ Reduces the diversity of ASR

☐ Slightly affects your ASR accuracy

☐ Doesn't affect ASR at all

No, the answer is incorrect.
Score: 0

Accepted Answers:
Reduces the diversity of ASR

8) In speech recognition which one of the following is optimal for feature extraction

☐ Take only long frames of speech and extract features

☐ Take only short frames of speech and extract features

0 points

f

Twitter

YouTube

LinkedIn

g+

- ☐ Depending upon the application you can extract either long or short frames of speech
- ☐ Use both long and short frames of speech for feature extraction

No, the answer is incorrect.

Score: 0

Accepted Answers:

Take only short frames of speech and extract features



Previous Page

End