

Dialog planning in VoiceXML

Csapó Tamás Gábor <csapot AT tmit.bme.hu>

4 January 2011

3. Control questions

What is the goal of speech synthesis?

Which are the most important speech synthesis technologies?

Explain the main points of concatenative (e.g. diphone-based) speech synthesis!

Explain the main points of unit selection (corpus based) speech synthesis!

What is the goal of speech recognition?

Which are the main steps of speech recognition and what is their result?

Introduce the steps of MFCC computation!

What is the difference between the acoustical and language models?

Which VoiceXML tag is suitable for synthesizing a given text?

Complete the following VoiceXML code to greet the caller person!

```
1 <?xml version="1.0" ?>
2 <vxml version="2.0" xmlns="http://www.w3.org/2001/vxml">
3
4
5
6 </vxml>
```

Which VoiceXML tag is suitable for giving an automatic error message if the speech recognition was not successful?

Which VoiceXML tag is suitable for giving an automatic error message if there was no input from the user?

Which VoiceXML tag is suitable for declaring a variable?

Which VoiceXML tags are suitable for writing conditional expressions?

Which VoiceXML tag is suitable for defining speech recognition grammars?

Complete the following VoiceXML code to be able to recognize the words News / Cinema / Sports!

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <vxml version="2.0" xmlns="http://www.w3.org/2001/vxml">
3   <form>
4     <field name="selection">
5       <grammar root="r" mode="voice"
6         type="application/srgs+xml">
7
8
9       </grammar>
10    </field>
11  </form>
12 </vxml>
```