

TICRM

Máster y Doctorado en Tecnologías de la
Información y Comunicaciones en Redes Móviles

AUDIO-VISUAL SPEECH SYNTHESIS

Michael Pucher,
Telecommunications Research Center Vienna

5 y 6 de julio, de 09:00 a 12:00



Aula P2G2
(Edificio G, Planta 2ª)
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Nota: El curso se impartirá en inglés.

Contents:

This seminar will introduce the methods and problems in audio-visual speech synthesis. In audio-visual speech synthesis we aim at generating an acoustic (speech) and visual (facial motion) signal of a person speaking. We will first introduce visual speech synthesis and then discuss how visual and acoustic speech synthesis can be combined within the hidden Markov model (HMM) framework.

Day 1:

- Methods for audio-visual speech synthesis
 - Video-based
 - Marker-based
 - 3D-Video based
- Marker-based recording equipment
- Marker-based audio-visual speech synthesis
 - Synthesis of markers
 - Re-targeting to head
 - Design of talking head

Day 2:

- HMM based audio-visual speech synthesis
 - Parameter generation
 - Adaptation
 - Duration modelling
- Audio visual HMM models

Dr. Michael Pucher

Michael Pucher is a senior researcher and project manager at the Telecommunications Research Center Vienna (FTW). He received a PhD from Graz University of Technology in 2007 with a thesis on semantic language modeling for speech recognition. His research interests are speech synthesis and recognition, multimodal dialog systems, and sensor fusion. He has authored and co-authored more than 30 refereed papers in international conferences and journals. In 2010 he was involved in the commercial development of "Leopold", the first synthetic voice for Austrian German. In 2011 he was awarded a research grant from the Austrian Science Fund (FWF) for the project "Adaptive Audio-Visual Dialect Speech Synthesis (AVDS)". A list of publications and a detailed CV can be found on userver.ftw.at/~pucher.

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