

SPEECH SYNTHESIS I

Tuomo Raitio, Lauri Juvola, Antti Suni, Martti Vainio, Paavo Alku

Phase Perception of the Glottal Excitation of Vcoded Speech

Sunayana Sitaram, Serena Jeblee, Alan W. Black

Using Acoustics to Improve Pronunciation for Synthesis of Low Resource Languages

Tadashi Inai, Sunao Hara, Masanobu Abe, Yusuke Ijima, Noboru Miyazaki, Hideyuki Mizuno

Sub-Band Text-to-Speech Combining Sample-Based Spectrum with Statistically Generated Spectrum

Heng Lu, Wei Zhang, Xu Shao, Quan Zhou, Wenhui Lei, Hongbin Zhou, Andrew Breen

Pruning Redundant Synthesis Units Based on Static and Delta Unit Appearance Frequency

Yamato Ohtani, Yu Nasu, Masahiro Morita, Masami Akamine

Emotional Transplant in Statistical Speech Synthesis Based on Emotion Additive Model

Xurong Xie, Xunying Liu, Lan Wang, Rongfeng Su

Generalized Variable Parameter HMMs Based Acoustic-to-Articulatory Inversion

Seyed Hamidreza Mohammadi, Alexander Kain

Semi-Supervised Training of a Voice Conversion Mapping Function Using a Joint-Autoencoder

Stefan Huber, Axel Roebel

On Glottal Source Shape Parameter Transformation Using a Novel Deterministic and Stochastic Speech Analysis and Synthesis System

Yi-Chin Huang, Chung-Hsien Wu, Ming-Ge Shie

Fluent Personalized Speech Synthesis with Prosodic Word-Level Spontaneous Speech Generation

Yuji Oshima, Shinnosuke Takamichi, Tomoki Toda, Graham Neubig, Sakriani Sakti, Satoshi Nakamura

Non-Native Speech Synthesis Preserving Speaker Individuality Based on Partial Correction of Prosodic and Phonetic Characteristics

Markus Toman, Michael Pucher

Evaluation of State Mapping Based Foreign Accent Conversion

DEEP NEURAL NETWORKS FOR SPEECH SYNTHESIS

Sivanand Achanta, Tejas Godambe, Suryakanth V. Gangashetty

An Investigation of Recurrent Neural Network Architectures for Statistical Parametric Speech Synthesis

Yuchen Fan, Yao Qian, Frank K. Soong, Lei He

Sequence Generation Error (SGE) Minimization Based Deep Neural Networks Training for Text-to-Speech Synthesis

Eunwoo Song, Hong-Goo Kang

Deep Neural Network-Based Statistical Parametric Speech Synthesis System Using Improved Time-Frequency Trajectory Excitation Model

STATISTICAL PARAMETRIC SPEECH SYNTHESIS

Takenori Yoshimura, Kei Hashimoto, Yoshihiko Nankaku, Keiichi Tokuda

Simultaneous Optimization of Multiple Tree Structures for Factor Analyzed HMM-Based Speech Synthesis

Maël Pouget, Thomas Hueber, Gérard Bailly, Timo Baumann

HMM Training Strategy for Incremental Speech Synthesis

Shinnosuke Takamichi, Tomoki Toda, Alan W. Black, Satoshi Nakamura

Modulation Spectrum-Constrained Trajectory Training Algorithm for HMM-Based Speech Synthesis

Alan W. Black, Prasanna Kumar Muthukumar

Random Forests for Statistical Speech Synthesis

Doo Hwa Hong, Joun Yeop Lee, Se Young Jang, Nam Soo Kim

Speaker Adaptation Using Relevance Vector Regression for HMM-Based Expressive TTS

Vassilis Tsiaras, Ranniery Maia, Vassilis Diakouloukas, Yannis Stylianou, Vassilis Digalakis

Towards a Linear Dynamical Model Based Speech Synthesizer

PROSODY MODELING SPEECH SYNTHESIS

Qian Chen, Zhen-Hua Ling, Chen-Yu Yang, Li-Rong Dai

Automatic Phrase Boundary Labeling of Speech Synthesis Database Using Context-Dependent HMMs and N-Gram Prior Distributions

Decha Moungsri, Tomoki Koriyama, Takao Kobayashi

Duration Prediction Using Multi-Level Model for GPR-Based Speech Synthesis

Mahsa Sadat Elyasi Langarani, Jan van Santen, Seyed Hamidreza Mohammadi, Alexander Kain

Data-Driven Foot-Based Intonation Generator for Text-to-Speech Synthesis

Branislav Gerazov, Pierre-Edouard Honnet, Aleksandar Gjoreski, Philip N. Garner

Weighted Correlation Based Atom Decomposition Intonation Modelling

Raul Fernandez, Asaf Rendel, Bhuvana Ramabhadran, Ron Hoory

Using Deep Bidirectional Recurrent Neural Networks for Prosodic-Target Prediction in a Unit-Selection Text-to-Speech System

SPEECH SYNTHESIS II

Yang Wang, Minghao Yang, Zhengqi Wen, Jianhua Tao

Combining Extreme Learning Machine and Decision Tree for Duration Prediction in HMM Based Speech Synthesis

Duy Khanh Ninh, Yoichi Yamashita

F0 Parameterization of Glottalized Tones for HMM-Based Vietnamese TTS

Bo Chen, Zhehuai Chen, Jiachen Xu, Kai Yu

An Investigation of Context Clustering for Statistical Speech Synthesis with Deep Neural Network

Simon Betz, Petra Wagner, David Schlangen

Micro-Structure of Disfluencies: Basics for Conversational Speech Synthesis

György Szaszák, András Beke, Gábor Olaszy, Bálint Pál Tóth

Using Automatic Stress Extraction from Audio for Improved Prosody Modelling in Speech Synthesis

Ye Kyaw Thu, Win Pa Pa, Jinfu Ni, Yoshinori Shiga, Andrew Finch, Chiori Hori, Hisashi Kawai, Eiichiro Sumita

HMM Based Myanmar Text to Speech System

Shinji Takaki, SangJin Kim, Junichi Yamagishi, JongJin Kim

Multiple Feed-Forward Deep Neural Networks for Statistical Parametric Speech Synthesis

SPEECH SYNTHESIS III

Kaisheng Yao, Geoffrey Zweig

Sequence-to-Sequence Neural Net Models for Grapheme-to-Phoneme Conversion

Steffen Eger

Improving G2P from Wiktionary and Other (Web) Resources

Chuang Ding, Pengcheng Zhu, Lei Xie

BLSTM Neural Networks for Speech Driven Head Motion Synthesis

Patrick Lumban Tobing, Kazuhiro Kobayashi, Tomoki Toda, Graham Neubig, Sakriani Sakti, Satoshi Nakamura

Articulatory Controllable Speech Modification Based on Gaussian Mixture Models with Direct Waveform Modification Using Spectrum Differential

Thomas Le Cornu, Ben Milner

Reconstructing Intelligible Audio Speech from Visual Speech Features

Sunayana Sitaram, Alok Parlikar, Gopala Krishna Anumanchipalli, Alan W. Black

Universal Grapheme-Based Speech Synthesis

Marc Evrard, Samuel Delalez, Christophe d'Alessandro, Albert Rilliard

Comparison of Chironomic Stylization versus Statistical Modeling of Prosody for Expressive Speech Synthesis

Luc Ardaillon, Gilles Degottex, Axel Roebel

A Multi-Layer F0 Model for Singing Voice Synthesis Using a B-Spline Representation with Intuitive Controls

Igor Jauk, Antonio Bonafonte, Paula Lopez-Otero, Laura Docio-Fernandez

Creating Expressive Synthetic Voices by Unsupervised Clustering of Audiobooks

Sandesh Aryal, Ricardo Gutierrez-Osuna

Articulatory-Based Conversion of Foreign Accents with Deep Neural Networks

EVALUATION OF SPEECH SYNTHESIS

Jonathan Chevelu, Damien Lolive, Sébastien Le Maguer, David Guennec

How to Compare TTS Systems: A New Subjective Evaluation Methodology Focused on Differences

Lukas Latacz, Werner Verhelst

Double-Ended Prediction of the Naturalness Ratings of the Blizzard Challenge 2008–2013

Takashi Nose, Yusuke Arao, Takao Kobayashi, Komei Sugiura, Yoshinori Shiga, Akinori Ito

Entropy-Based Sentence Selection for Speech Synthesis Using Phonetic and Prosodic Contexts

Tomoki Koriyama, Takao Kobayashi

A Comparison of Speech Synthesis Systems Based on GPR, HMM, and DNN with a Small Amount of Training Data

Raphael Ullmann, Ramya Rasipuram, Mathew Magimai-Doss, Hervé Boudlard

Objective Intelligibility Assessment of Text-to-Speech Systems Through Utterance Verification