

Wednesday

March 7, 2018

12:00 Opening of the conference office / registration

13:00 Opening: Welcome by the President of the University of Ulm: Prof. Dr.-Ing. Michael Weber

Keynote

13:20	Kruijff G.-J.	Nuance Communications Aachen	The Mobile Cognitive Assistant: Bridging the Gap Between In-Car and Outside-the-Car Experiences
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Session: Signal Processing

[Session Chair: G. Schmidt]

14:10	Bulling, P. ; Linhard, K. ; Wolf, A. ; Schmidt, G.	Daimler AG, Kiel University	Automatic Equalization for In-Car Communication Systems
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14:30	Gimm, M. ; Bulling, P. ; Schmidt, G.	Kiel University, Daimler AG	Energy-Decay Based Postfilter for ICC Systems with Feedback Cancellation
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14:50	Mnasri, Z. ; Amiri, H.	University Tunis El Manar	On the relationship between instantaneous frequency and pitch in speech signals
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15:10 Coffee

Session: Speech Recognition

[Session Chair: R. Hoffmann]

15:30	Müller, M. ; Stüker, S. ; Waibel, A.	Karlsruhe Institute of Technology (KIT)	Enhancing Multilingual Graphemic RNN based ASR Systems using Phone Information
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15:50	Fischer, V. ; Ghahabi, O. ; Kunzmann, S.	EML GmbH Heidelberg	Recent Improvements to Neural Network Based Acoustic Modeling in The EML Real-Time Transcription Platform
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16:10	Li, X. ; Pan, Y. ; Willett, D. ; Zhan, P.	Nuance Communications Inc.	DNN Online Adaptation for Automatic Speech Recognition
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16:30	Höge, H.	Universität der Bundeswehr München	Using Elementary Articulatory Gestures as Phonetic Units for Speech Recognition
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16:50 Poster Session

[Session Chair: K. Fellbaum]

18:00 Welcome Reception

20:00 Meeting of the support association

Poster Session		Wednesday - 16:50
Sautter, J. ; Faubel, F. ; Buck, M. ; Schmidt, G.	Nuance Communications Deutschland GmbH, Kiel University	Evaluation of different excitation generation algorithms for artificial bandwidth extension
Harding, P. ; Gibson, M.	Nuance Communications Ltd. UK	Unsupervised Neural-Network based vocal tract length normalization
Gibson, M. ; Plahl, C. ; Zhan, P. ; Cook, G.	Nuance Communications Inc.	Multi-condition Deep Neural Network Training
Ghahabi, O. ; Zhou, W. ; Fischer, V.	EML GmbH Heidelberg	A Robust Voice Activity Detection for Real-Time Automatic Speech Recognition
Stille, C. ; Kröger, B. J.	RWTH Aachen University	Zeichensatz-Erweiterung zur phonetischen Transkription pathologischer Sprache
Ding, H. ; Hoffmann, R. ; Jokisch, O.	Shanghai Jiao Tong University, TU Dresden	Voice Preference in German: A Cross-linguistic Comparison of Native and Chinese Listeners
Siegert, I. ; Shuran, T. ; Lotz, A. F.	University of Magdeburg	Acoustic Addressee-Detection - Analysing the impact of age, gender and technical knowledge
Landesberger, J. ; Kornmüller, D. ; Ehrlich, U.	Daimler AG	Explorative Untersuchung von Multi-Intents in Sprachdialogsystemen
Beim Graben, P. ; Huber, M. ; Römer, R. ; Schmitt, I.	BTU Cottbus	Der Fockraum als Labyrinth: Wissensrepräsentation und Problemlösungen am Beispiel des Mouse-Maze-Problems
Manthey, R. ; Hussein, H. ; Erler, R. ; Siegel, R. ; Kowerko, D.	Chemnitz University of Technology, FU Berlin	Realisation of an audio & video laboratory for precise object localization and tracking
Schmidt, M. ; Braunger, P.	Daimler AG	Towards a Speaking Style-Adaptive Assistant for Task-Oriented Applications
Hillmann, S. ; Weiss, B. ; Michael, T. ; Möller, S.	TU Berlin	Simulation von Nutzerverhalten bei der Interaktion mit Sprachdialogsystemen mittels Künstlicher Neuronaler Netzwerke
Duran, D. ; Lewandowski, N.	University of Stuttgart	Untersuchung der kognitiven Beanspruchung durch Sprachassistenzsysteme
Huber, M. ; Römer, R.	BTU Cottbus	Agenten in höheren Sphären - Quantenmechanische Situationsmodellierung kognitiver Systeme am Beispiel des Mouse-Maze-Problems

Thursday			March 8, 2018
Keynote			<i>[Session Chair: J. Trouvain]</i>
09:00	McTear, M.	University of Ulster	Conversation modelling for chatbots: current approaches and future directions
Session: Speech Processing and Prosody			<i>[Session Chair: J. Trouvain]</i>
09:50	Weiss, B. ; Michael, T. ; Hillmann, S.	TU Berlin	Kontinuierliche Schätzung von Sprechgeschwindigkeit mit einem Rekurrenten Neuronalen Netzwerk
10:10	Kisler, T. ; Schiel, F.	LMU Munich	Towards a speaker localization from spontaneous speech: North-South classification for speakers of contemporary German
10:30	Coffee		
Session: Affective Speech			<i>[Session Chair: A. Wendemuth]</i>
10:50	Lotz, A. ; Faller, F. ; Siegert, I. ; Wendemuth, A.	University of Magdeburg	Emotion recognition from disturbed speech - towards affective computing in real-world in-car environments
11:10	Höbel-Müller, J. ; Böck, R. ; Wendemuth, A.	University of Magdeburg	The Effect of Emotional Speech on Relative Speaker Discrimination
11:30	Jokisch, O. ; Iaroshenko, V. ; Maruschke, M. ; Ding, H.	HfT Leipzig, Shanghai Jiao Tong University	Influence of Age, Gender and Sample Duration on the Charisma Assessment of German Speakers
11:50	Lewandowski, N. ; Duran, D.	University of Stuttgart	Testing speech perception today and tomorrow: serious computer games as perception tests
12:10	Lunch & Demo Session		
Keynote			<i>[Session Chair: B. Weiss]</i>
13:50	Schwenker, F.	Ulm University	Artificial deep neural networks for multimodal emotion recognition

Session: Speech Dialog

[Session Chair: B. Weiss]

14:40	Böck, R. ; Egorow, O. ; Wendemuth, A.	University of Magdeburg	Acoustic Detection of consecutive stages of spoken interaction based on speaker-group specific features
15:00	Kraljevski, I. ; Fischer, M. ; Gjoreski, A. ; Hirschfeld, D.	voice INTER connect GmbH Dresden	Development of a natural language speech dialogue system for an AR-based, adaptive mobility agent
15:20	Reichel, U. D. ; Lendvai, P.	LMU Munich, University of Göttingen	Dodging the question of competitive spoken dialogs: semantic and prosodic characteristics

15:40 Coffee

Keynote

[Session Chair: P. Birkholz]

16:00	Ultes, S.	Cambridge University	Towards Natural Spoken Interaction with Artificial Intelligent Systems
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18:15 City Tour

19:30 Conference Dinner

Demo Session

Thursday - 12:30

Villemure, D. ; Yeh, P. ; Policano, R. ; Kaiser, M. ; Gruhn, R.	Nuance Communications Inc.	The Dragon Drive Innovation Showcase: Advancing the state-of-the-art in automotive assistants
Sowa, T. ; Richter, A. ; Fey, D.	Elektrobit Automotive GmbH, University of Erlangen-Nuremberg	A toolkit for 3D-gesture and speech dialog in automotive environments
Ranzenberger, T. ; Hacker, C. ; Gallwitz, F.	Elektrobit Automotive GmbH, TH Nürnberg	Integration of a Kaldi Speech Recognizer into a Speech Dialog System for automotive infotainment applications
Meyer, W. ; Wolff, M.	BTU Cottbus	Verhaltenssteuerung einer universellen kognitiven Benutzerschnittstelle anhand einer Heizungssteuerung

Friday			March 9, 2018
Keynote			<i>[Session Chair: M. Wolff]</i>
09:00	Schmidt, G.	Kiel University	In-Car (Voice) Communication: Problems, Solutions, and Challenges
Session: Signal Processing in Health and Music			<i>[Session Chair: M. Wolff]</i>
09:50	Kroschel, K. ; Metzler, J.	Karlsruhe Institute of Technology (KIT)	Contactless Measurement of the Respiration Frequency by Vibrometry
10:10	Wagner, C. ; Stone, S. ; Birkholz, P.	TU Dresden	Towards combined force and distance sensing using only optical sensors to aid in stroke rehabilitation
10:30	Steiner, P. ; Stone, S. ; Birkholz, P.	TU Dresden	Piano Transcriber - A note-based approach for Multi-Pitch-Tracking
10:50	Coffee		
Session: Speech Synthesis			<i>[Session Chair: B. Möbius]</i>
11:10	Trouvain, J. ; Möbius, B.	Saarland University, Saarbrücken	Zu Mustern der Pausengestaltung in natürlicher und synthetischer Lesesprache
11:30	Burkhardt, F. ; Steinhilber, A. ; Weiss, B.	Deutsche Telekom	Ironic Speech - Evaluating Acoustic Correlates by Means of Speech Synthesis
11:50	Howard, I. S. ; Birkholz, P.	University of Plymouth, TU Dresden	Using State Feedback to control an articulatory synthesizer
12:10	Marwitz, J. A. ; Stone, S. ; Birkholz, P.	TU Dresden	Optimierung der Numerik eines linearen Gleichungssystems für die Simulation des Schallfeldes im Vokaltrakt
12:30	Closing word by the organizer of the 30th ESSV		