Welcome!

The 3rd Workshop on Child, Computer and Interaction (WOCCI 2012) will be held in Portland, Oregon, U.S.A., on September 14, 2012. This year, the Workshop is a satellite event of the 13th Annual Conference of the International Speech Communication Association (INTERSPEECH 2012), which will take place in the same venue on September 9-13, 2012. This edition follows the first two editions of the WOCCI series which were held in Crete in October 2008 and Boston in November 2009, respectively.

This workshop aims at bringing together researchers and practitioners from universities and industry working in all aspects of multimodal child-machine interaction with particular emphasis on, but not limited to, speech interactive interfaces.

Children are special both at the acoustic/linguistic level but also at the interaction level. The Workshop provides a unique opportunity for bringing together different research communities to demonstrate various state-of-the-art components that can make up the next generation of child centred computer interaction. These technological advances are increasingly necessary in a world where education and health pose growing challenges to the core wellbeing of our societies. Noticeable examples are remedial treatments for children with or without disabilities, and first and second language learning. The Workshop should serve for presenting recent advancements in all core technologies for multimodal child-machine interaction as well as experimental systems and prototypes.
Call for Papers

Papers are solicited on any technical areas relevant to the Workshop. The technical scope of the Workshop includes, but it is not limited to:

- **Speech Interfaces**: acoustic and linguistic analysis of children's speech, discourse analysis of spoken language in child-machine interaction, age-dependent characteristics of spoken language, automatic speech recognition for children and spoken dialogue systems

- **Multi-modality and Robotics**: multi-modal child-machine interaction, multi-modal input and output interfaces, including robotic interfaces, intrusive, non-intrusive devices for environmental data processing, pen or gesture/visual interfaces

- **User Modelling**: user modelling and adaptation, usability studies accounting for age preferences in child-machine interaction

- **Cognitive Models**: internal learning models, personality types, user-centred and participatory design

- **Application Areas**: diagnostic tools and training systems for child-related medical conditions such as autism and learning and attention disorders; educational software, gaming interfaces.

The technical committee will select papers for oral/poster presentation.
For Authors

Paper Information

Paper: All authors have to submit their paper (four to eight pages) of their contributions by June 15, 2012. Papers must contain original material not previously published, nor currently submitted elsewhere. At least one author of each paper must be registered and attend the Workshop to present the paper.

Author's Kit

Submitted abstracts and papers must be in PDF format and conform to the INTERSPEECH 2012 publication format. For templates and examples follow the link:


The official language of the Workshop is English.

Online Submission

To submit your paper (PDF file) please link to the Workshop submission webpage. Please note that the submission page is managed by EasyChair. This will require you to create an account to access the Workshop submission page if you do not have an EasyChair account yet.

Demo Presentation

People who wish to present a demo are invited to send an e-mail with a short description of their demo (demo proposal) to Stefan Steidl (steidl at cs.fau.de).

Contacts

For any problems concerning the paper submission please contact Stefan Steidl (steidl at cs.fau.de).
Organizing Committee

**Chairs:**
Izhak Shafran, Oregon Health and Science University, USA
Kay Berkling, Baden-Wuerttemberg Cooperative State University, Karlsruhe, Germany
Stefan Steidl, University of Erlangen-Nuremberg, Germany

**Program Committee:**
Kay Berkling, Baden-Wuerttemberg Cooperative State University, Karlsruhe, Germany
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Alex Potamianos, Technical University of Crete, Greece
Izhak Shafran, Oregon Health and Science University, USA
Stefan Steidl, University of Erlangen-Nuremberg, Germany
Emily Tucker Prud'hommeaux, Oregon Health and Science University, USA
Serdar Yildirim, Mustafa Kemal University, Turkey

**Contact:**
Stefan Steidl (steidl at cs.fau.de)
Technical Program

Friday, September 14, 2012

09:00-09:15 Welcome Message - Kay Berkling

09:15-10:15 Invited Talk
Chair: Kay Berkling

Monitoring the Neural Mechanics of Learning
Don M. Tucker

10:15-11:00 Poster Session with Coffee

11:00-12:30 Oral Session I
Chair: Emily Prud'hommeaux

11:00-11:30
Automatic Detection of Pragmatic Deficits in Children with Autism
Emily Prud'hommeaux and Masoud Rouhizadeh

11:30-12:00
Coherence in Child Language Narratives: A Case Study of Annotation and Automatic Prediction of Coherence
Khairun-nisa Hassanali, Yang Liu and Thamar Solorio

12:00-12:30
Automatic Detection of Sigmatism in Children
Cassia Valentini-Botinhao, Sabine Degenkolb-Weyers, Andreas Maier, Elmar Nöth, Ulrich Eysholdt and Tobias Bocklet

12:30-13:30 Lunch

13:30-15:00 Oral Session II
Chair: Stefan Steidl

13:30-14:00
Acoustical Analysis of Engagement Behavior in Children
Rahul Gupta, Chi-Chun Lee, Daniel Bone, Agata Rozga, Sungbok Lee and Shrikanth Narayanan
14:00-14:30

Emotion in the Speech of Children with Autism Spectrum Conditions: Prosody and Everything Else

Erik Marchi, Björn Schuller, Anton Batliner, Shimrit Fridenzon, Shahar Tal and Ofer Golan

14:30-15:00

Spoken Language Processing in a Conversational System for Child-Robot Interaction

Ivana Kruijff-Korbayová, Heriberto Cuayáhuitl, Bernd Kiefer, Marc Schröder, Piero Cosi, Giulio Paci, Giacomo Sommavilla, Fabio Tesser, Hichem Sahli, Georgios Athanasopoulos, Weiyi Wang, Valentin Enescu and Werner Verhelst

15:00-15:30 Poster Session with Coffee

15:30-17:30 Oral Session III

Chair: Izhak Shafran

15:30-16:00

Automatic Assessment of Oral Reading Fluency for Spanish Speaking ELs

Daniel Bolaños, Patricia Elhazaz Walsh, Wayne H. Ward and Ronald A. Cole

16:00-16:30

Using Automatic Speech Recognition to Assess the Reading Proficiency of a Diverse Sample of Middle School Students

Klaus Zechner, Keelan Evanini and Cara Laitusis

16:30-17:00

Reading Companion: The Technical and Social Design of an Automated Reading Tutor

Arthur Kantor, Miloš Cerňák, Jiří Havelka, Sean Huber, Jan Kleindienst and Doris B. Gonzalez

17:00-17:30

Investigating the Influence of Virtual Peers as Dialect Models on Students' Prosodic Inventory

Samantha Finkelstein, Stefan Scherer, Amy Ogan, Louis-Philippe Morency and Justine Cassell

Posters

P1: Using Constituency and Dependency Parse Features to Identify Errorful Words in Disordered Language
Eric Morley and Emily Prud'hommeaux

P2: Identifying Impact Factors of Language Development in Young Children's Natural Home Environment
Dongxin Xu, Jill Gilkerson, Jeffrey A. Richards, John H. L. Hansen and Christine Yoshinaga-Itano

P3: Emotion Recognition from Children's Speech Using Anchor Models
Yazid Attabi and Pierre Dumouchel

P4: Children and Adults in Dialogue with the Robot Head Furhat - Corpus Collection and Initial Analysis
Mats Blomberg, Gabriel Skantze, Samer Al Moubayed, Joakim Gustafson, Jonas Beskow and Björn Granström

P5: Improving Oral Reading Fluency Assessment Using Automatic Speech Processing Technologies
Jennifer E. Balogh-Ghosh and Jared C. Bernstein

P6: A Case Study Using Data Exploration of Spelling Errors Towards Designing Automated Interactive Diagnostics
Kay Berkling

P7: Hands-on Speech Science Exhibition for Children at a Science Museum
Takayuki Arai, Kanae Amino, Mee Sonu, Keiichi Yasu, Takako Igeta, Kanako Tomaru and Marino Kasuya

19:00 Informal gathering at a restaurant

(not included in the registration fee)
Venue and Traveling

The venue is Vey Conference Center at the Doernbecher Children's Hospital at OHSU Marquam Hill Campus. The venue is about 1.5 miles from Hilton and downtown Portland. The venue can be reached by car from downtown in about 10 minutes and by bus in about 15 minutes.

Use TriMet: Public Transportation for the Portland, Oregon, Metro Area to plan your trip. Alternatively, Portlanders would recommend walking along the river for 30 minutes to OHSU's south waterfront campus and taking the scenic tram ride (every 10 minutes) up to the hill campus.