S.O.U.N.D. Workshop 2018
on Automatic Methods for Analyzing and Predicting Social Structure from Diverse Auditory Data Sets

Program
Workshop lecture day 1, Monday 17.12
The Gonda Multidisciplinary Brain Research Center (building 901), Bar-Ilan University

09:00 - 09:30 Opening remarks:
- Miriam Faust, Rector, Bar-Ilan University, Israel
- Merav Galili, Vice President for Development, Bar-Ilan University, Israel

09:30 - 11:00 Session 1: Measuring social interaction in speech (Moderator: Sharon Gannot)
- Shrikanth (Shri) Narayanan, University of Southern California, USA, Enabling Behavioral Machine Intelligence from Speech, Language and beyond
- Ann Bradlow, Northwestern University, USA, Language-independent talker-specificity in bilingual speech: Using a multi-lingual speech corpus to identify individual talker "traits" that persist across first-language and second-language "states"
- Yossi Keshet, Bar-Ilan University, Israel, Novel vocal measures to study interpersonal interactions

11:00 - 11:30 Coffee break

11:30 - 12:30 Session 2: Multi-modal analysis of social interaction (Moderator: Yossi Keshet)
- Xavier Alameda-Pineda, INRIA Grenoble Rhône-Alpes, France, Multi-modal Automatic Detection of Social Attractors in Crowded Meetings
- Sharon Gannot, Bar-Ilan University, Israel, Diarization and Separation Based on a Data-Driven Simplex

12:30 - 13:30 Lunch

13:30 - 14:30 Session 3: Synchrony in speech (Moderator: Yossi Keshet)
- Julia Hirschberg, Columbia University, USA, Vocal Characteristics of Trust and Charisma
- Jennifer Pardo, Montclair State University, Theme and Variation in Phonetic Convergence

14:30 - 15:00 Coffee break

15:00 - 17:00 Structured Discussion: Defining and measuring synchrony & dominance in social interaction (Moderators: Yossi Keshet & Sharon Gannot)
Discussants: Shrikanth Narayanan, Julia Hirschberg, Jennifer Pardo, Ann Bradlow, Xavier Alameda-Pineda

Workshop lecture day 2, Wednesday 19.12
The Weisfeld Hall, Feldman building (301), Bar-Ilan University

09:00 - 09:30 Gathering (Coffee)

09:30 - 10:30 Session 4: Applying speech analysis methods to study human social interaction (Moderator: Ilanit Gordon)
- Michael J. Tanana, University of Utah, USA, Learning how to be a better listener. From a Bot.
- Brian Baucom, University of Utah, USA, Vocally encoded emotional arousal in dyadic interaction

10:30 - 11:00 Coffee break

11:00 - 12:30 Session 5: Using novel methods to study client-therapist interaction in psychotherapy (Moderator: Dana Atzil-Slonim)
- Zac E. Imel, University of Utah, USA, Exploring the process of psychotherapy with machine learning and speech signal processing
- Wolfgang Tscherter, University of Bern, Switzerland, Synchrony – an approach to explore shared moments
- Sander L. Koole, VU University Amsterdam, Netherlands, The Rhythm of Relating: Movement Synchrony Facilitates Emotional Sharing

12:30 - 13:30 Lunch

13:30 - 14:30 Session 6: Vocal communication in social wildlife (Moderator: Lee Koren)
- Eli Geffen, Tel-Aviv University, Israel, Male hyraxes increase song complexity and duration in the presence of alert individuals
- Yossi Yovel, Tel-Aviv University, Israel, Vocal communication in a crowd of bats - from chaos to information

14:30 - 15:00 Coffee break

15:00 - 17:00 Structured Discussion: Vocal coordination in human and wildlife interactions (Moderators: Eshkol Rafaeli & Eva Gilboa-Schechtman)
Discussants: Sander Koole, Zac Imel, Wolfgang Tscherter, Brian Baucom, Michael Tanana, Ruth Feldman, Simone Shamay-Tsoory, Eli Geffen, Yossi Yovel

17:00 - 17:30 Closing remarks