



9:00-9:30: Registration

9:30-9:45: Opening Welcome: Luisa Burck, President of ISA

9:45- 11:00: Plenary Session:

Robust, Generalizable and Causal-oriented Statistical Machine Learning
Prof. Peter Bühlmann

11:00-12:40 Parallel sessions I

Session IA: **Statistics in medicine**

Session organizer: **Micha Mandel**

Shai Carmi, HUJI,
Screening human IVF embryos with polygenic risk scores: evaluating the expected risk reduction

Yael Travis-Lumer, Technion,
Effect size quantification for interrupted time series analysis with application to Covid-19 research

Anat Reiner-Benaim, BGU,
Time-course analysis of multiple endpoints in real-world medical data, with an example on hospitalized COVID-19 patients

Yair Goldberg, Technion,
Comparing the protection of 2-dose vaccine and the booster: A quasi-experiment approach

Session IB: **Out-of-domain generalization: when the train and test distributions don't match**

Session organizer: **Uri Shalit**

Sara Magliacane, University of Amsterdam
Causality-inspired ML: what can causality do for ML? The domain adaptation case

Yair Carmon, TAU,
When is out-of-distribution generalization predictable?

Yonatan Belinkov, Technion
Advances in Characterizing and Improving Out-of-Distribution Generalization in Natural Language Processing

Gal Chechik, Bar-Ilan University
Adapting to new federated-learning clients using Hypernetworks

Lunch Break (Elections + Financial Report)

14:00-15:40 Parallel sessions II

Session IIA: Model-Free Statistical Inference

Session organizer: **Yaniv Romano**

Asaf Weinstein, HUJI,
A Power Analysis for Model-X Knockoffs with l_p -Regularized Statistics

Tzviel Frostig, TAU,
Statistically Testing for Out of Distribution Examples in Deep Neural Networks

Shalev Shaer, Technion,
Learning to Increase the Power of Model-X Randomization Tests

Nadav Trumer, Istra Research
A non-parametric test for analyzing A/B testing results while controlling over two exogenous factors with applications for trials of trading strategy variations

Session IIB: Machine learning for the public good

Session organizer: **David Wajnryb**

Yulia Nudelman, Bank of Israel,
Knowledge Graph: New data Sources for Better Decisions

Michal Frenkel, IDF
From an enemy to a loved one - People Analytics in security organization - a case study in IDF's Intelligence Division

Reut Tsarfaty, director of the ONLP lab
Hebrew NLP: What How and Whither

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Tal Galili, Meta,
Using the Facebook Platform to Create a Global Symptom and Pandemic Effects Monitoring Resource

Coffee Break

16:10-17:30: Parallel sessions III

Session IIIA: Statistical theory & methods

Session organizer: **Boaz Nadler**

Tirza Routtenberg, BGU,
Estimation after model selection

Roi Weiss, Ariel University
On Universal Bayes Consistency

Tomer Levy, TAU,
High dimension classification by sparse multinomial regression

Ariel Jaffe, HUJI, TBD
Recovering tree models via spectral graph theory

Session IIIB: Recent advances in high-dimensional statistics

Session organizer: **Daniel Yekutieli**

Amichai Painsky, Tel-Aviv University
Confidence Intervals for Unobserved Events

Assaf Rabinowicz, Spotitarily
Tree-Based Models for Correlated Data

Alon Kipnis, Reichman University
Rare and Weak Detection Models using Moderate Deviations Analysis and Log-Chisquared P-values

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