Session 1. **Internet Experiments**  
*Organizer and Chair: David Steinberg, Tel Aviv University, Israel*

**Thompson Sampling for Infinite Armed Bandits**  
Steven Scott, *Google*

**Sliced Designs for Multi-Platform Online Experiments**  
Soheil (Sol) Sadeghi, *Microsoft Corporation*

**Trustworthy analysis of online A/B tests: Pitfalls, challenges and solutions**  
Jiannan Lu, *Microsoft Corporation*

Session 2. **Computational methods in design of experiments**  
*Organizer and Chair: Dave Woods, University of Southampton, UK*

**New methods for approximating the expected utility in Bayesian design for nonlinear models**  
Yiolanda Englezou, *University of Southampton, UK*

**The Construction of Missing-Robust Experimental Designs and their Comparison to Classical and Optimal Designs**  
Byran Smucker, *Miami University (Oxford, OH)*

**Computation of Optimal Experimental Design for Estimating Conditional Effects**  
Bradley Jones, *JMP Division/SAS*

Session 3. **New Applications of Factorial Experiments**  
*Organizer and Chair: Jessica Jaynes, California State University, Fullerton*

**Order of Addition Modeling**  
Robert Mee, *University of Tennessee*

**Application of Kriging Models for a Drug Combination Experiment on Lung Cancer**  
Qian Xiao, *University of Georgia*

**Using blocked fractional factorial designs to construct discrete choice experiments**  
Jessica Jaynes, *California State University, Fullerton*

Session 4. **Designs for Non-Normal Data**  
*Organizer and Chair: Abhyuday Mandal, University of Georgia*

**Robust Dose-level Designs for Binary Responses**  
Wanchunzi Yu, *Arizona State University*

**Constructing Efficient Designs for a Ballooned Beta-Logistic Model in Toxicology**  
Seung Won Hyun, *North Dakota State University*
D-optimal Designs for Multinomial Logistic Models
Jie Yang, University of Illinois at Chicago

——— Day 2: Friday, October 13, 2017 ———

Session 5. Design and Analysis of Computer Experiments
Organizer and Chair: Peter Qian, University of Wisconsin-Madison

Data farming research: opportunities for the design and analysis of large-scale simulation experiments
Susan Sanchez, The Naval Postgraduate School

A Stochastic Process Approach to Generating Designs
Matthew Pratola, The Ohio State University

Predictive Distribution for Gaussian Process Models with Design-Based Subagging
Linglin He, Rutgers University

Session 6. Recent Advances in Orthogonal Arrays and Covering Arrays
Organizer and Chair: Frederick Phoa, Academia Sinica, Taiwan

Strong Orthogonal Arrays of Strength Two Plus
Boxin Tang, Simon Fraser University, Canada

Geometric Orthogonal Array (GOA): A new class of space-filling designs with good uniformities in multiple dimensions
Frederick Kin Hing Phoa, Academia Sinica, Taiwan

High Index Covering Array: A Useful Class of Cost-Efficient and Outlier-Resistant Designs With Repeated Tuple Observations
Yasmeen Akhtar, Academia Sinica, Taiwan

Session 7. Inference for Adaptive Designs
Organizer and Chair: Nancy Flournoy, University of Missouri

Blinded and Unblinded Sample Size Recalculation for generalized linear models
Sergey Tarima, Medical College of Wisconsin

Adaptive Procedures for Optimum Observed Fisher Information
Adam Lane, Cincinnati Children’s Hospital Medical Center

Optimal Adaptive Subsampling under the A-optimality Criterion for Logistic Regression
Haiying Wang, University of Connecticut

Session 8. Computer Experiments and Uncertainty Quantification
Organizer: Ying Hung, Rutgers University
Chair: C. Devon Lin, Queen’s University, Canada
Exact Knowledge Gradient-Based Sequential Data collection for Optimal Decision Making
Qiong Zhang, Virginia Commonwealth University

Invariance-Preserving Emulation for Computer Models, with Application to Structural Energy Prediction
Peter Qian, University of Wisconsin-Madison

Local Gaussian Process Model for Large-scale Dynamic Computer Experiments
C. Devon Lin, Queen’s University, Canada

——— Day 3: Saturday, October 14, 2017 ———

Session 9. Advances in Optimal design of dose ranging studies
Organizer and Chair: Valerii Fedorov, ICONplc, USA

Operational tuning optimal design of clinical trials "time-to-event" endpoints to increase operational probability of success
Xiaoqiang Xue, QuintilesIMS

Optimal model-based design, dose ranging, and population pharmacokinetic measures
Sergei Leonov, ICON Clinical Research

A universal approach to optimal design of experiments based on the use of elemental information matrices
Valerii Fedorov, ICONplc, USA

Session 10. Information-Based Optimal Subdata Selection for Big Data
Organizer and Chair: Min Yang, University of Illinois at Chicago

Optimal design of sampling survey for efficient parameter estimation
Wei Zheng, University of Tennessee

On Data Reduction of Big Data
Min Yang, University of Illinois at Chicago

Information-Based Optimal Subdata Selection for Big Data Lasso Regression
Xin Wang, University of Illinois at Chicago
Optimal design involving profile factors
Maria Adamou, University of Southampton, UK

A Bayesian-inspired minimum aberration criterion for two-level multi-stratum factorial designs
Ming-Chung Chang, Academia Sinica, Taiwan

Hybrid Numerical Optimization Algorithms for Generating Optimal Discrimination Designs
Ping-Yang Chen, National Cheng Kung University, Taiwan

Algorithms for searching saturated D-Optimal designs for two level factorial designs
Kouakou Francois Domagni, University of Illinois, Chicago

CV, ECV, and Robust CV designs for replications under a class of linear models in factorial experiments
Subir Ghosh, University of California, Riverside

Simulation-Based Optimal Bayesian Design for Sequential Experiments
Xun Huan, Sandia National Laboratories

Power and Practicality of Large Supersaturated Designs
Varun Khemani, University of Maryland

Robust Design of Generalized Linear Model
Yiou Li, DePaul University

Augmenting Definitive Screening Designs for Estimating Quadratic Models
Abigail Nachtsheim, Arizona State University

On A-efficient treatment-control designs constructed by generalized cyclic designs
Kazuhiro Ozawa, Gifu College of Nursing, Japan

Design of Order-of-Addition Experiments
Jiayu Peng, Penn State University

An algebra for conditional main effects
Arman Sabbaghi, Purdue University

Pseudo Generalized Youden Designs
Rakhi Singh, IITB-Monash Research Academy, India

Differential Evolution for Optimal Design Creation
Zack Stokes, UCLA

Finding D-Optimal Designs for High Dimensional Logistic Models via Two-Layer Tournament Swarm Optimization
Zizhao Zhang, UCLA
Individual Factor Word Length Pattern For Nonregular Fractional Factorial Designs
Qi Zhou, Tianjin University of Finance and Economics, China

——— Day 2: Friday, October 13, 2017 ———

Purely sequential estimation of a negative binomial mean with applications in ecology
Sudeep R. Bapat, University of California, Santa Barbara

Information-Based Optimal Subdata Selection for Big Data Logistic Regression
Qianshun Cheng, University of Illinois at Chicago

Comparison of Gaussian process modeling software
Collin Erickson, Northwestern University

Replication or exploration? Sequential design for stochastic simulation experiments
Jiangeng Huang, Virginia Tech

The application of design of experiments to precision medicine clinical trial
Kim May Lee, University of Cambridge, UK

Hellinger information and optimal designs for nonregular models
Yi Lin, University of Illinois at Chicago

Experimental Design with Circulant Property and its Application to fMRI Experiment
Yuan-Lung Lin, Academia Sinica, Taiwan

d-QPSO: A Quantum-Behaved Particle Swarm Technique for Finding D-Optimal Designs for Models with Mixed Factors and a Binary Response
Abhyuday Mandal, University of Georgia

Construction of Covering Arrays Using Parallel Strength Two Covering Arrays
Kevin Quinlan, Penn State University

Geometric Orthogonal Array (GOA): A new class of space-filling designs with good uniformities in multiple dimensions
Cheng-Yu Sun, Simon Fraser University, Canada

Super-simple bipartite orthogonal array
Yu Tang, Soochow University, China

Two-Level Designs Constructed by Concatenating Orthogonal Arrays of Strength Three
Alan Vazquez-Alcocer, University of Antwerp, Belgium

Optimal space-filling Latin hypercube designs based on good lattice point designs
Lin Wang, UCLA

Locally D-optimal Designs for Multiple-covariate Generalized Linear Models
Zhongshen Wang, Arizona State University

Local Variable Selection in Experimental Design
Munir Winkel, North Carolina State University

Functional F tests for orthogonal designs
Bairu Zhang, Queen Mary, University of London