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, University of Wisconsin, Madison

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

Efficient Gaussian Process Modeling using Experimental Design-Based Subagging
Ying Hung, 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 and Chair:* Ying Hung, Rutgers University

**Exact Knowledge Gradient-Based Sequential Data collection for Optimal Decision Making**  
Qioung 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*
INVITED POSTERS

Each poster will be either on Day 1 or Day 2 (To be finalized in September)

Optimal design involving profile factors
Maria Adamou, University of Southampton, UK

Second order slope rotatable designs
Bejjam Re Victor Babu, Acharya Nagarjuna University, India

Purely Sequential Estimation of a Negative Binomial Mean with Applications in Ecology
Sudeep R. Bapat, University of California, Santa Barbara

An Experimental Design for Assessment of Tourism TV Commercials — A case of BRICS Nations
Vivek Bhatt, Ahmedabad University, Gujarat, India

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

Estimating the hazard functions of two alternating recurrent events in the presence of covariates
Moumita Chatterjee, University of Calcutta, India

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

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

A Biosocial Approach to Mental Health Involving Religiosity and Social Networks
Y. Julia Cheng, University at Albany, SUNY

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

Comparison of Gaussian process modeling software
Collin Erickson, Northwestern University

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

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

Power and Practicality of Large Supersaturated Designs
Varun Khemani, University of Maryland
The application of design of experiments to precision medicine clinical trial
Kim May Lee, *University of Cambridge, UK*

Construction of weak universal optimal block designs with various correlation structures and block sizes
Chang Li, *Guangzhou University, China*

**Robust Design of Generalized Linear Model**
Yiou Li, *DePaul University*

Robust split-plot designs for model misspecification
Chang-Yun Lin, *National Chung-Hsing University, Taiwan*

**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*

Experimental Design to Evaluate Treatment Satisfaction and Medication Adherence Intention Relationship in Diabetes
Vinaytosh Mishra, *Indian Institute of Technology(BHU), Varanasi*

**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*

**Optimal Design of Experiments on Connected Units: How to use experiments to measure networks better, and how to use networks to make experiments better.**
Ben Parker, *University of Southampton, UK*

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

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

**An algebra for conditional main effects**
Arman Sabbaghi, *Purdue University*

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

**Using Differential Evolution Optimization to Find Minimum Bias Designs With Application to Electrospun Nanoyarns**
Zack Stokes, *UCLA*
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*

Analysis of Mixed-up Plots in Balanced Incomplete Block Design
P. Yageen Thomas,  *University of Kerala, India*

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

Designs for estimating the treatment effect in networks with interference
Alexander Volfovsky,  *Duke University*

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*

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*