When Organ Transplantation Meets Operations Research

Co-Chairs: Tinglong Dai and Ozge Sahin

Baltimore, Maryland | October 1, 2016
# Agenda

### 8:00-9:00 a.m.
Continental breakfast

### 9:00-9:30 a.m.
- Bernard T. (Bernie) Ferrari, Dean, Johns Hopkins Carey Business School
- Valerie Suslow, Vice Dean for Faculty and Research, Carey Business School
- Co-Chairs Tinglong Dai and Ozge Sahin

**Welcome and Introductions**

### 9:30-10:00 a.m.
- Robert Montgomery (NYU Medical Center)

**Paired Kidney Exchange**

### 10:00-10:30 a.m.
- Benjamin Philosophe (Johns Hopkins Medicine)

**Maryland Aggregate Pathology Index (MAPI): Development, Validation, and Future Research**

### 10:30-11:00 a.m.
- Sridhar Tayur (Carnegie Mellon)

**MY-ATLAS: Mapping HCC Tumor Biology to Compute Equitable Exception Points**

### 11:00-11:30 a.m.
Break

### 11:30 a.m.-12:00 p.m.
- Andrew Schaefer (Rice U)

**Mitigating Information Asymmetry in Liver Allocation**

### 12:00-12:30 p.m.
- John Roberts (UCSF Medical Center)

**Applying Algorithms to Organ Transplantation**

### 12:30-1:30 p.m.
- Lunch

### 1:30-2:00 p.m.
- Dimitris Bertsimas (MIT)

**Efficiency-Fairness Tradeoff in Organ Transplantation**

### 2:00-2:30 p.m.
- Baris Ata (UChicago)

**OrganJet: Overcoming Geographical Disparities in Access to Deceased Donor Kidneys**

### 2:30-3:00 p.m.
- Sommer Gentry (US Naval Academy)

**Gerrymandering for Justice: Redistricting U.S. Liver Allocation**

### 3:00-3:30 p.m.
Break

### 3:30-4:00 p.m.
- Itai Ashlagi (Stanford)

**Matching and Participation in Kidney Exchange**

### 4:00-4:30 p.m.
- Charles Alexander (CEO, Living Legacy; former President of UNOS)

**OPO Operations**

### 4:30-5:00 p.m.
- Pinar Keskinocak (Georgia Tech)

**Assessment of risk for transplant-transmissible infectious encephalitis due to emerging pathogens among deceased liver donors**

### 5:00-5:45 p.m.
Panel Discussion

**Collaborating to Succeed: How to Bridge Academic Research, Policymaking, and Medical Practice**

### 6:00-7:00 p.m.
Closing Reception
Speakers

Charles Alexander, MBA, MSN, RN, CPTC  
President and CEO  
The Living Legacy Foundation,  
Maryland’s Organ Procurement Organization

Robert Montgomery, MD, DPhil, FACS  
Director, Transplant Institute  
NYU Langone Medical Center  
Former Chief, Division of Transplantation of  
The Johns Hopkins Hospital

Itai Ashlagi, PhD  
Assistant Professor of  
Management Science and Engineering  
Stanford University

Benjamin Philosophe, M.D., Ph.D.  
Interim Chief, Division of Transplantation,  
Johns Hopkins Hospital;  
Professor of Surgery  
Johns Hopkins School of Medicine

Baris Ata, PhD  
Professor of Operations Management  
University of Chicago  
Booth School of Business

John Roberts, MD  
Professor and Chief  
Division of Transplant Surgery  
Chief, UCSF Medical Center  
Transplant Service  
Endowed Chair in Abdominal Transplantation

Dimitris Bertsimas, PhD  
Boeing Leaders for Global Operations  
Professor, Operations Research/Statistics  
Massachusetts Institute of Technology  
Sloan School of Management

Andrew J. Schaefer, PhD  
Noah Harding Chair  
Professor of Computational and  
Applied Mathematics  
Rice University

Sommer Gentry, PhD  
Professor  
Mathematics Department  
United States Naval Academy

Sridhar Tayur, PhD  
Distinguished Research Chair  
Professor of Operations Management  
Tepper School of Business  
Carnegie Mellon University

Pinar Keskinocak  
William W. George Chair and Professor  
Stewart School of Industrial Engineering  
Georgia Institute of Technology
Johns Hopkins Symposium on Healthcare Operations

Bringing together leading operations scholars, policy makers, and transplant surgeons to share cutting-edge research and practice in organ donation, allocation, and transplantation.