



2022 IEEE Systems and Information
Engineering Design Symposium

2022 Best Paper Awards

ENERGY AND THE ENVIRONMENT TRACK

OPTIMIZING FOR WATER EQUITY IN THE COLORADO RIVER BASIN

Hania Abboud, Erin Baker, Teagan Baiotto, Christopher Weigand,
Julianne Quinn

University of Virginia

OPTIMIZATION, SIMULATION, AND DECISION ANALYSIS TRACK

MULTI-CRITERIA DECISION ANALYSIS TOOL FOR CAPITAL PLANNING AND PRIORITIZATION OF WMATA FACILITIES AND ASSETS

Latifa Al Jlayel, Kazi Asifa Ashrafi, Yumna Dahab, , Diing Manyang,
Joost Santos

George Washington University

HEALTH TRACK

PREDICTING LIVER UTILIZATION RATE AND POST-TRANSPLANT OUTCOMES FROM DONOR TEXT NARRATIVES WITH NATURAL LANGUAGE PROCESSING

Kristy Bell, Madeline Hennessy, Michael Henry, and Avni Malik

University of Virginia

DATA TRACK

GOLF AND GAMEFORGE: INNOVATIVE ANALYTICS FOR RECOMMENDER SYSTEMS

Rachel Kreitzer, Rose Dennis, Steven Wasserman, Zachary Kay,
Jerry Lu, Sam Roberts, Thomas Twomey, William Scherer

University of Virginia

SYSTEMS DESIGN TRACK

DEVELOPING A DYNAMIC CONTROL ALGORITHM TO IMPROVE VENTILATION EFFICIENCY IN A UNIVERSITY CONFERENCE ROOM

Matthew Caruso, Jason Jabbour, Caleb Neale, Alden Summerville,
Avery Walters, Arsalan Heydarian, Arthur Small, Mahsa
Pahlavikhah Varnosfaderani

University of Virginia

INFRASTRUCTURE AND NETWORKS TRACK

DESIGN OF A PRIORITIZATION METHODOLOGY FOR EQUITABLE INFRASTRUCTURE PLANNING

Rahul Dhansinghani, Ayman Ibrahim, Aditya Kannothe, Claire Miller,
Lena Nguyen, Steven Pham, Reid Bailey

University of Virginia

POLICY TRACK

*DEMOCRATIZING HOUSING AFFORDABILITY DATA: OPEN DATA AND DATA
JOURNALISM IN CHARLOTTESVILLE, VIRGINIA*

Spencer Bozsik, Xinlun Cheng, Malvika Kuncham, Evan Mitchell

University of Virginia