

AI for Social Impact: Room 217

| Date | Session | Paper ID | Paper Title | Authors |
|--|--|----------|---|--|
| Thursday, February 22nd 3:45pm | AISI: Public Health | 32 | Outlier Ranking For Large-Scale Public Health Data | Ananya Joshi; Tina Townes; Nolan Gormley; Luke Neureiter; Roni Rosenfeld; Bryan Wilder |
| | AISI: Public Health | 11669 | Deploying ADVISER : Impact and Lessons from using Artificial Intelligence for Child Vaccination Uptake in Nigeria | Opadele Kehinde; Ruth Abdul; Bose Afolabi; Parminder Vir; Corinne Namblard; Ayan Mukhopadhyay; Abiodun Adereni |
| | AISI: Public Health | 9165 | Nowcasting Temporal Trends Using Indirect Surveys | Ajitesh Srivastava; Juan Marcos Ramirez; Sergio Díaz; Jose Aguilar; Antonio Fernández Anta; Antonio Ortega; Rosa Lillo |
| | AISI: Public Health | 12025 | MedAlign: A Clinician-Generated Dataset for Instruction Following with Electronic Medical Records | Scott Fleming; Alejandro Lozano; William Haberkorn; Jenelle Jindal; Eduardo Reis; Rahul Thapa; Louis Blankemeier; Julian Genkins; Ethan Steinberg; Ashwin Nayak; Birju Patel; Chia-Chun Chiang; Alison Callahan; Zepeng Huo; Sergios Gatidis; Scott Adams; Oluseyi Fayanju; Shreya Shah; Thomas Savage; Ethan Goh; Akshay Chaudhari; Nima Aghaeepour; Christopher Sharp; Michael Pfeffer; Percy Liang; Jonathan Chen; Keith Morse; Emma Brunskill; Jason Fries; Nigam Shah |
| Friday, February 23rd 2:00pm | AISI: Environmental Sustainability | 3311 | Active Reinforcement Learning for Robust Building Control | Doseok Jang; Larry Yan; Lucas Spangher; Costas J. Spanos |
| | AISI: Environmental Sustainability | 7677 | Estimating On-road Transportation Carbon Emissions from Open Data of Road Network and Origin-destination Flow Data | Jinwei Zeng; Yu Liu; Jingtao Ding; Jian Yuan; Yong Li |
| | AISI: Environmental Sustainability | 11075 | Where it Really Matters: Few-Shot Environmental Conservation Media Monitoring for Low-Resource Languages | Sameer Jain; Sedrick Scott Keh; Shova Chhetri; Karun Dewan; Pablo Izquierdo; Johanna Prussmann; Pooja Shrestha; César Suárez; Zheyuan Ryan Shi; Lei Li; Fei Fang |
| | AISI: Environmental Sustainability | 11852 | Scaling Up Pareto Optimization for Tree Structures with Affine Transformations: Evaluating Hybrid Floating Solar-Hydropower Systems in the Amazon | Marc Grimson; Rafael Almeida; Qinru Shi; Yiwei Bai; Hector Angarita; Felipe Siqueira Pacheco; Rafael Schmitt; Alexander Flecker; Carla Gomes |
| Friday, February 23rd 3:45pm | Ag / Disaster assessments through Imagery | 5838 | HarvestNet: A Dataset for Detecting Smallholder Farming Activity Using Harvest Piles and Remote Sensing | Jonathan Xu; Amna elmustafa; Liya Weldegebriel; Emnet Negash; Richard Lee; Chenlin Meng; Stefano Ermon; David Lobell |
| | Ag / Disaster assessments through Imagery | 11036 | Combining deep learning and street view imagery to map smallholder crop types | Jordi Laguarda Soler; Thomas Friedel; Sherrie Wang |
| | Ag / Disaster assessments through Imagery | 11381 | Spatial-Logic-Aware Weakly Supervised Learning for Flood Mapping on Earth Imagery | Zelin Xu; Tingsong Xiao; Wenchong He; Yu Wang; Zhe Jiang; Shigang Chen; Yiqun Xie; Xiaowei Jia; Da Yan; Yang Zhou |
| | Ag / Disaster assessments through Imagery | 3300 | DISCount: Counting in Large Image Collections with Detector-Based Importance Sampling | Gustavo Perez; Subhransu Maji; Daniel Sheldon |
| Saturday, February 24th 9:30am | Urban Planning and Resilience | 12654 | Auto311: A Confidence-guided Automated System for Non-emergency Call | Zirong Chen; Xutong Sun; Yuanhe Li; Meiyi Ma |
| | Urban Planning and Resilience | 9869 | Physics-Informed Graph Neural Networks for Water Distribution Systems | Inaam Ashraf; Janine Strotherm; Luca Hermes; Barbara Hammer |
| | Urban Planning and Resilience | 12138 | A Bayesian Spatial Model to Correct Under-Reporting in Urban Crowdsourcing | Gabriel Agostini; Emma Pierson; Nikhil Garg |
| | Urban Planning and Resilience | 2957 | Stable Matchings in Practice: A Constraint Programming Approach | Zhaohong Sun; Naoyuki Yamada; Yoshihiro Takenami; Daisuke Moriwaki; Makoto Yokoo |
| Saturday, February 24th 11:15am | AISI: Social Welfare, Justice, Fairness and Equality | 6937 | Is My Prediction Arbitrary? The Confounding Effects of Variance in Fair Classification Benchmarks | A. Feder Cooper; Katherine Lee; Madiha Choksi; Solon Barocas; Christopher De Sa; James Grimmelmann; Jon Kleinberg; Siddhartha Sen; Baobao Zhang |
| | AISI: Social Welfare, Justice, Fairness and Equality | 8609 | T-NET: Weakly Supervised Graph Learning for Combatting Human Trafficking | Pratheeksha Nair; Javin Liu; Catalina Vajiac; Andreas Olligschlaeger; Duen Horng Chau; Mirela Cazzolato; Cara Jones; Christos Faloutsos; Reihaneh Rabbany |
| | AISI: Social Welfare, Justice, Fairness and Equality | 9898 | Evaluating Pre-Trial Programs Using Interpretable Machine Learning Matching Algorithms for Causal Inference | Travis Seale-Carlisle; Saksham Jain; Courtney Lee; Caroline Levenson; Swathi Ramprasad; Brandon Garrett; Sudeepa Roy; Cynthia Rudin; Alexander Volfovsky |
| | AISI: Social Welfare, Justice, Fairness and Equality | 11013 | Discretionary Trees: Understanding Street-Level Bureaucracy via Machine Learning | Gaurab Pokharel; Sanmay Das; Patrick Fowler |