

# Ethical Considerations for Responsible Data Curation

Practical recommendations for responsibly curating human-centric computer vision datasets for fairness and robustness evaluations, addressing privacy and bias concerns

Poster #1602: Today @ 10:45 a.m. — 12:45 p.m.  
Great Hall & Hall B1+B2

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Reconstruction

Segmentation

Detection

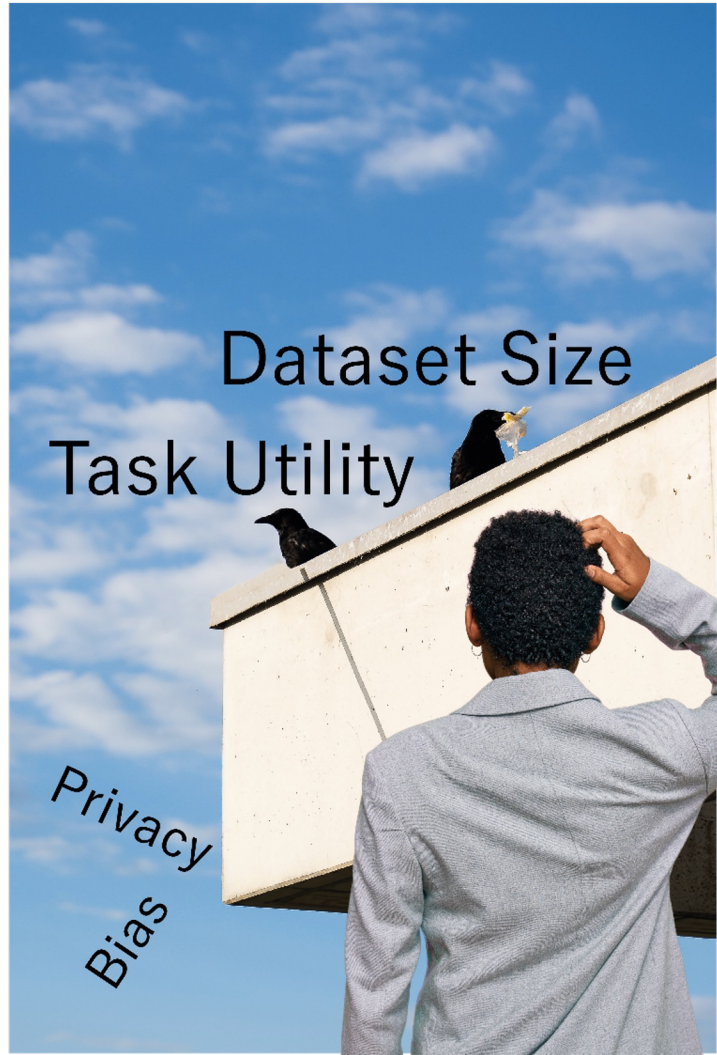
Pose

Editing

Verification

Action Recognition

Synthesis



Dataset Size

Task Utility

Privacy

Bias



Laundry

Spurious

Woman





Data Subject

Environment

Instrument



20–29  
Caucasian  
Man

Paper  
Deadline

Start









FLICKR

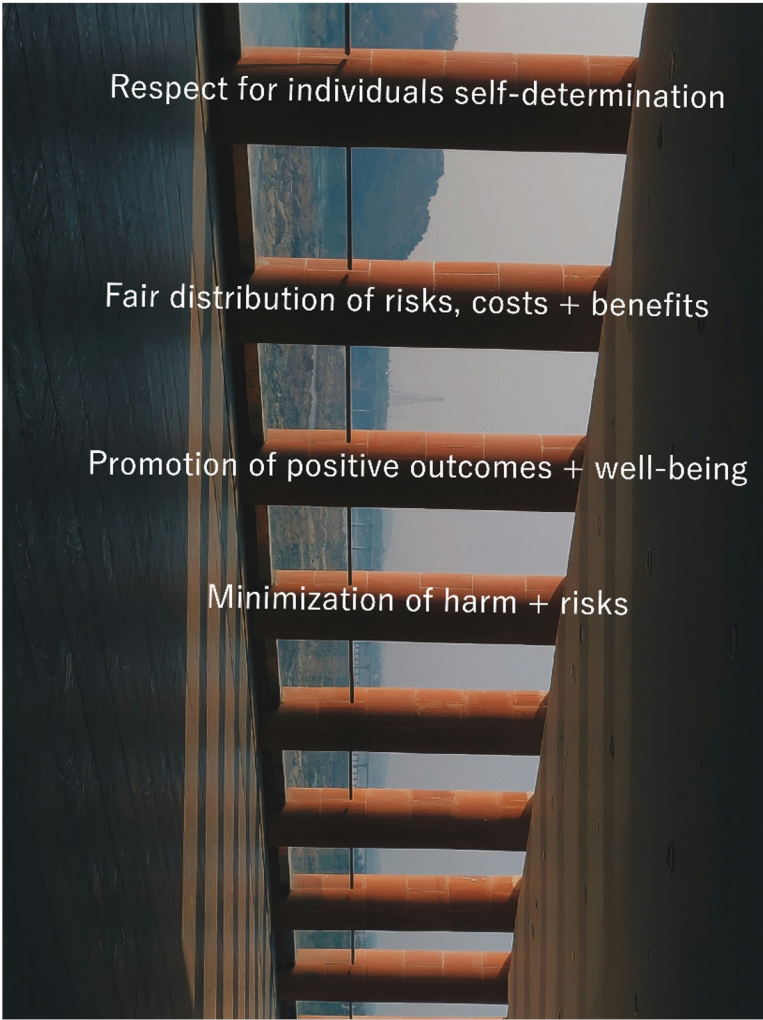


Broader Societal  
Consequences

Immediate  
Study Context



Sexual Orientation?  
Crime Propensity?  
Emotion?



Respect for individuals self-determination

Fair distribution of risks, costs + benefits

Promotion of positive outcomes + well-being

Minimization of harm + risks

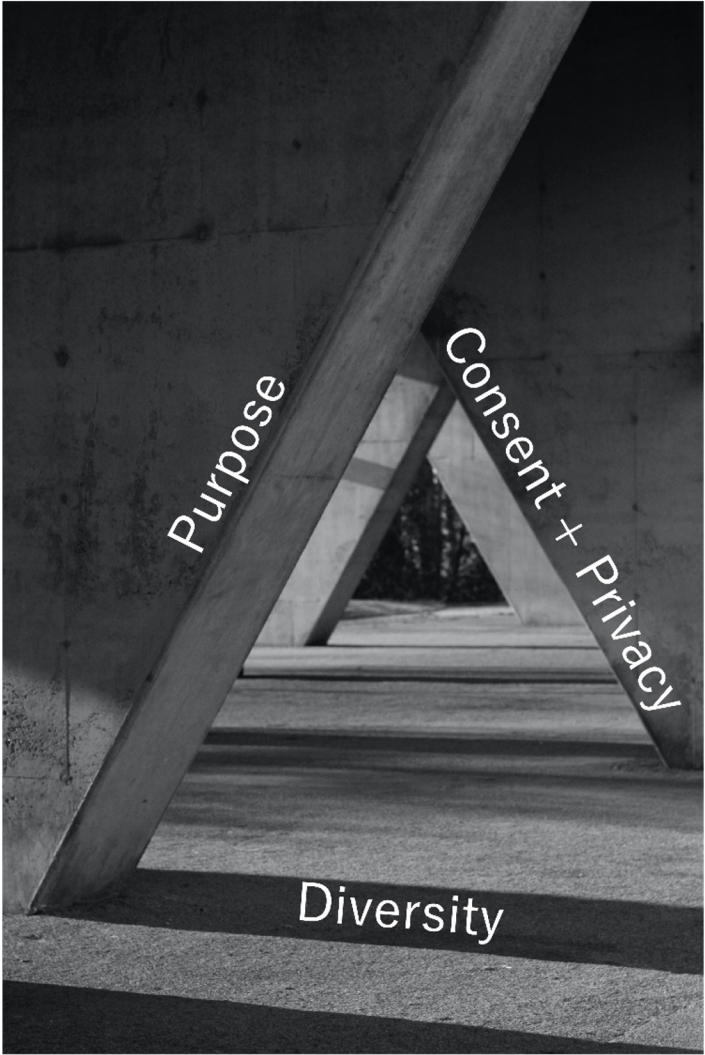


Current  
Practices

Guidelines

Dataset  
Withdrawals

Dataset  
Audits



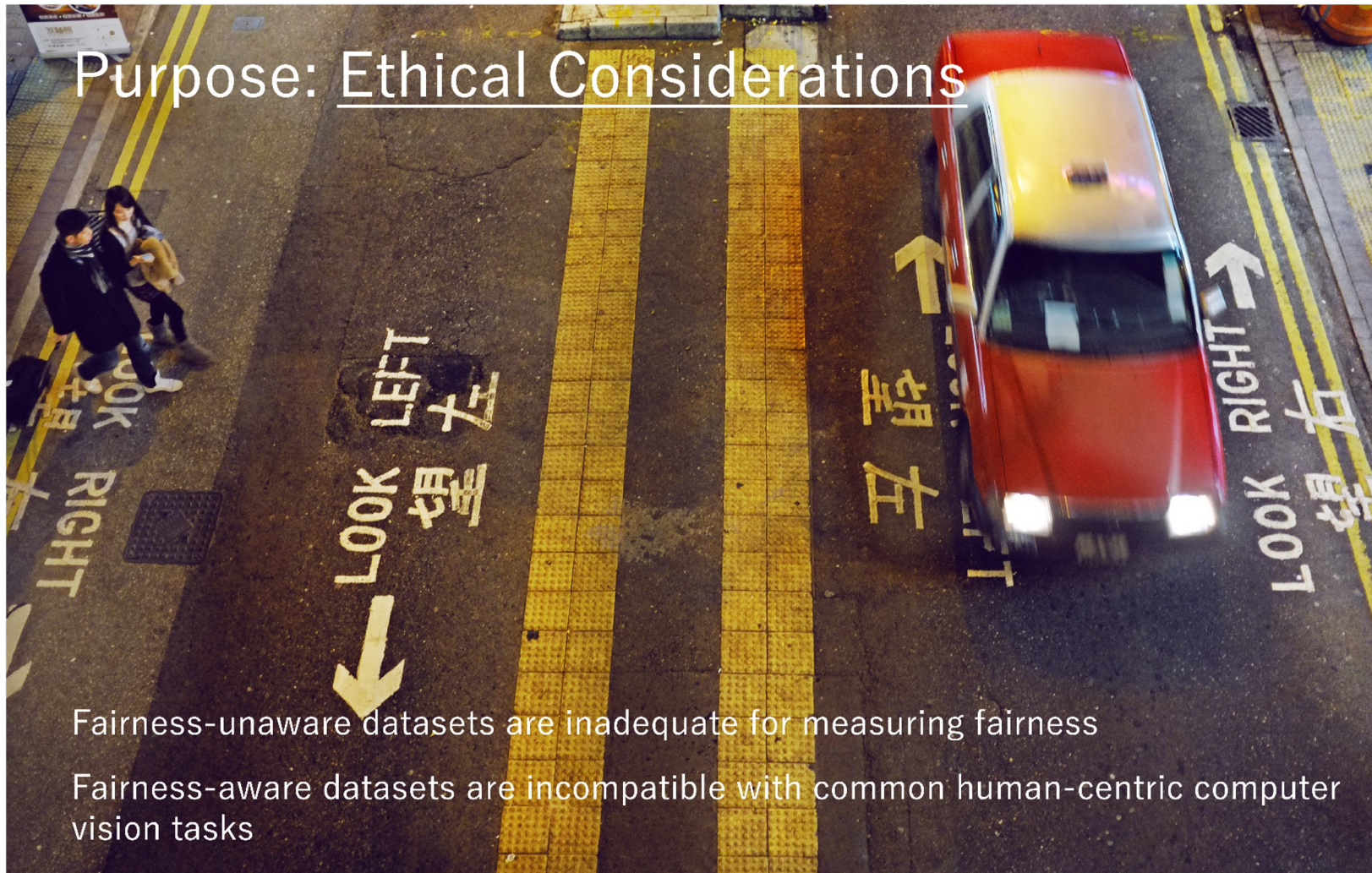
Purpose

Consent + Privacy

Diversity



# Purpose: Ethical Considerations



Fairness-unaware datasets are inadequate for measuring fairness

Fairness-aware datasets are incompatible with common human-centric computer vision tasks

# Purpose: Recommendations



Refrain from repurposing datasets

Create purpose statements prior to data collection

# Consent + Privacy: Ethical Considerations



Human-Subjects Research

Creative Commons licenses

Consent Revocation

Privacy-Leaking Image + Metadata Attributes

# Consent + Privacy: Recommendations



Obtain Voluntary Informed Consent + Assent

Collect Country of Residence Information

Adopt Consent Revocation Mechanisms

Redact Privacy-Leaking Image + Metadata Attributes

# Diversity: Ethical Considerations

A hand is seen reaching up from the surface of dark, choppy water. The background is a dark, moody sky or sea, creating a somber and contemplative atmosphere. The hand is positioned in the lower right quadrant of the frame, with fingers slightly curled as if reaching for something or signaling.

Representational + Historical Biases

Digital Divide + Accessibility

Confused Taxonomies

Own-Anchor Bias

Post Hoc Rationalization of Physiological Markers

Erasure of Nonstereotypical Individuals

Phenotypic Attributes

Environment + Instrument

Annotator Positionality

Recruitment + Compensation

# Diversity: Recommendations

Obtain Self-Reported Annotations

Provide Open-Ended Response Options

Acknowledge the Mutability + Multiplicity of Identity

Collect Age, Pronouns + Ancestry


Collect Aggregate Data for Commonly Ignored Groups

Collect Phenotypic + Neutral Performative Features

Record Environment + Instrument Information

Recontextualize Annotators as Contributors

Fair Treatment + Compensation for Contributors

A black and white photograph of a person standing in a maze, looking out over the complex paths. The person is seen from behind, with their head and shoulders visible. The maze is composed of tall, dense hedges that create a series of winding paths and dead ends. The lighting is dramatic, with strong shadows and highlights, emphasizing the texture of the hedges and the depth of the maze. The overall mood is one of uncertainty and challenge.

# What's in our way?

Established Norms

Inertia

Diffusion of Responsibility

Liability Concerns

Logistical Challenges

Economic Challenges

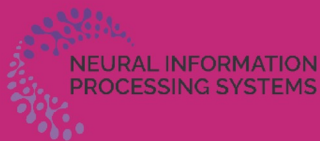
“Ethics is often about finding a good or better, but not perfect, answer”

Zook et al. *Ten Simple Rules for Responsible Big Data Research* (2017)





**SONY**



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