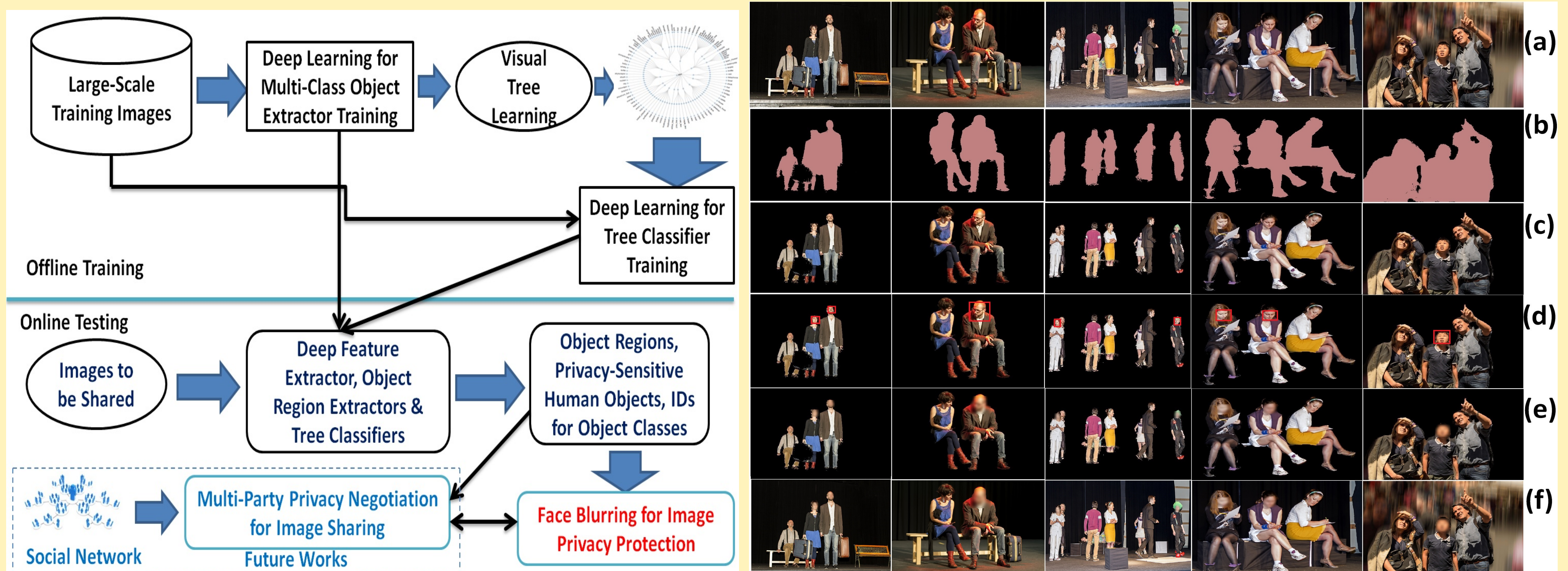


iPrivacy: Automatic Recommendation of Personalized Privacy Settings for Image Sharing

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The objective of this project is to achieve automatic recommendation of personalized privacy settings for image sharing by learning from large-scale shared social images and their privacy settings. By performing large-scale deep learning, we plan to identify thousands of privacy-sensitive object classes and learn their relationships with privacy settings for image sharing.



Proposed Approaches for Automatic Recommendation of Privacy Settings

- Automatic privacy-object alignment to identify a large set of privacy-sensitive object classes from massive social images and their privacy settings;
- Large-scale deep learning to achieve fast extraction and recognition of large numbers of privacy-sensitive object classes;
- Automatic recommendation of privacy settings for image sharing by detecting and recognizing the underlying objects from the images being shared.
- Supporting multi-party privacy negotiation for image sharing.

Progress:

- An automatic privacy-object alignment algorithm to identify a set of privacy-sensitive object classes and learn their relationships with privacy settings;
- A deep multi-task learning system is developed for detecting and recognizing large numbers of privacy-sensitive object classes from social images.

Publications:

- “Privacy protection for social video via background estimation and CRF-based videographer's intention modeling”, **IEICE Trans.** 99-D, no.4, pp.1221-1233, 2016.
- “iPrivacy: Image privacy protection by identifying sensitive objects via deep multi-task learning”, **IEEE Trans. On Information Forensics and Security**.

Interested in meeting the PIs? Attach post-it note below!