Face2Exp: Combating Data Biases for Facial Expression Recognition

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- **Motivation**
  - Utilize large unlabeled FR dataset to enhance FER

- **Two data biases**
  - Class imbalance in FER data
  - Distribution mismatch between FR and FER data

- **Key**
  - use the circuit feedback mechanism to guide the learning on unbalance FR data

- **Contributions**
  - A general framework for other face-related tasks that lack high quality data
  - Extract de-biased knowledge from auxiliary FR data
  - Produce low std and high mean accuracy with small labeled FER data (e.g., 5% AffectNet)

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