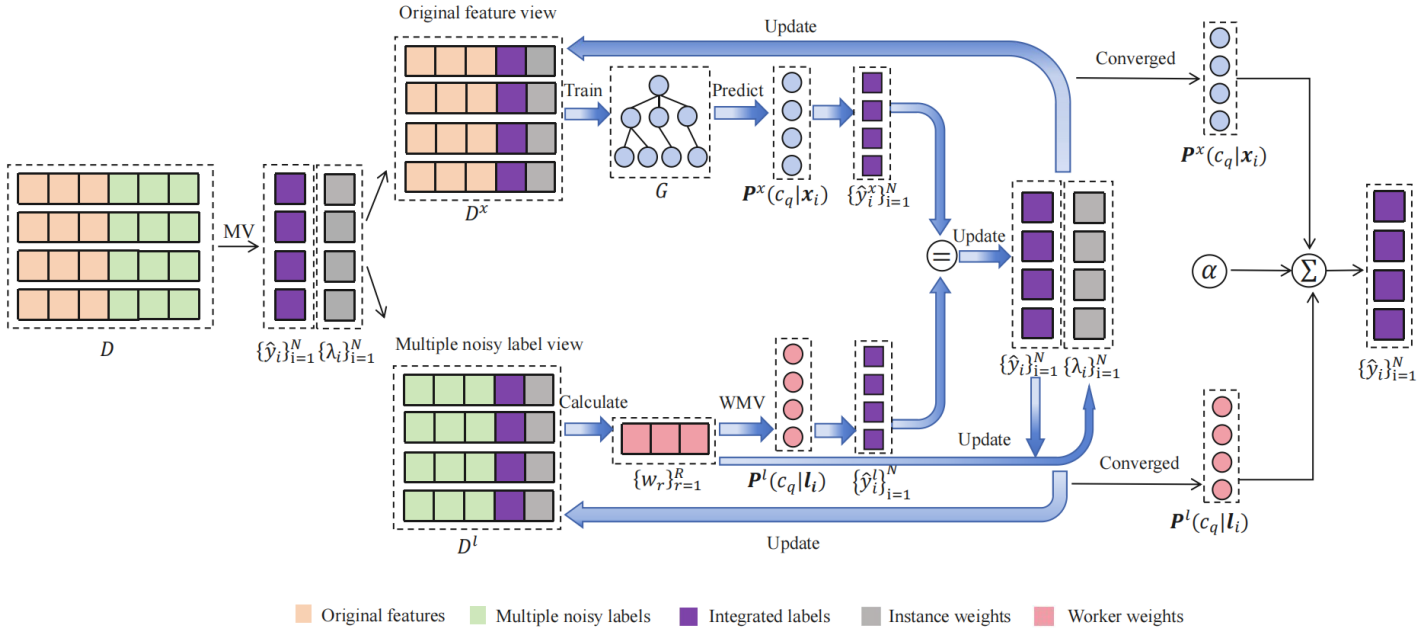
Dual-View Label Integration for Crowdsourcing

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Problems & Ideas

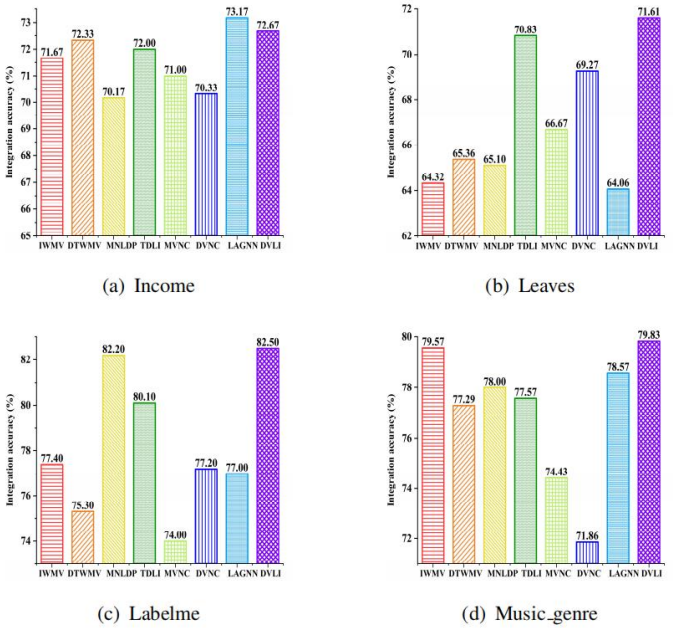
- Problems of label integration for crowdsourcing:
  - Existing label integration algorithms fail to make full use of the joint information between the original feature view and the multiple noise label view.
- Ideas: A novel label integration algorithm is proposed which is called as Dual-View Label Integration (DVLI).



Overall framework of DVLI.

Main Contributions

- Contributions:
  - A novel perspective for label integration is provided. DVLI introduces dual-view learning into label integration, enabling the joint information between the original feature view and the multiple noisy label view to be fully utilized.
  - A novel dual-view label integration method is proposed. DVLI uses the consistent information to update the integrated labels iteratively, and fuses the complementary information to obtain the final predicted class probabilities.



(a) Income (b) Leaves (c) Labelme (d) Music_genre

Integration accuracy (%) comparisons for DVLI versus its competitorson four real-world datasets.