## Triple-level Human Body Structure Modeling Neural Network for Monocular 2D Pose Estimation

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## Background

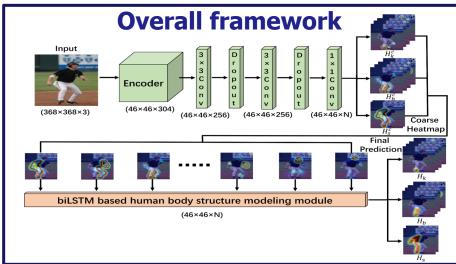
- Application
  - Human-computer interaction
  - Human action recognition
  - Animation
  - **...**

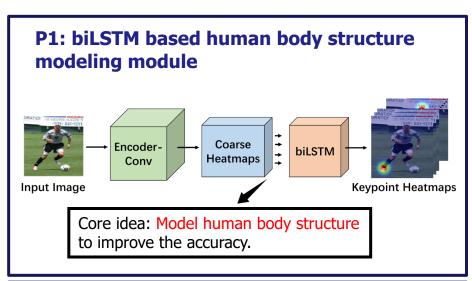


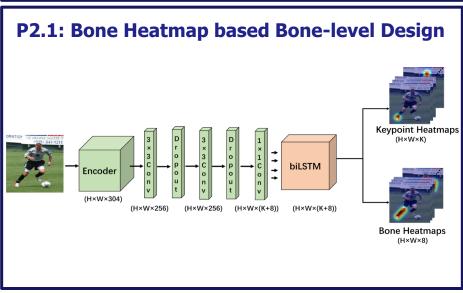


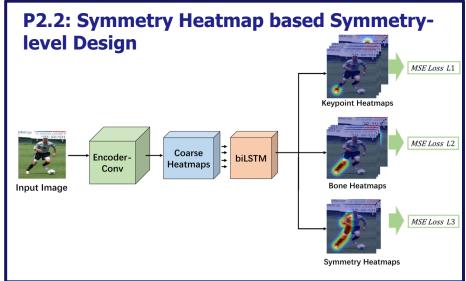


- Target
  - Improve 2D pose estimation algorithm's accuracy
  - The conventional work UniPose is baseline
- Challenges
- Abnormal pose
- Background clutter
- **■** ...



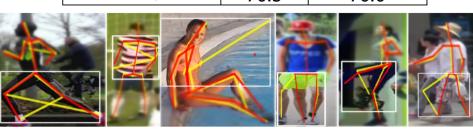


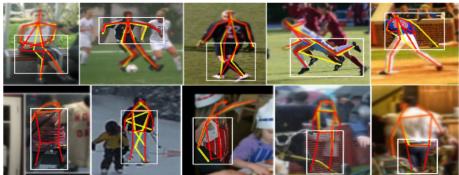




## Experiments Result

Dataset/Metric	UniPose %	P1+P2 %
LSP/PCK@0.5	94.8	95.2
MPII/PCKh@0.2	92.7	92.9
COCOval/mAP	76.3	76.6





## Conclusion

■ The proposed methods enhance the performance of UniPose baseline on three challenging datasets and metrics

