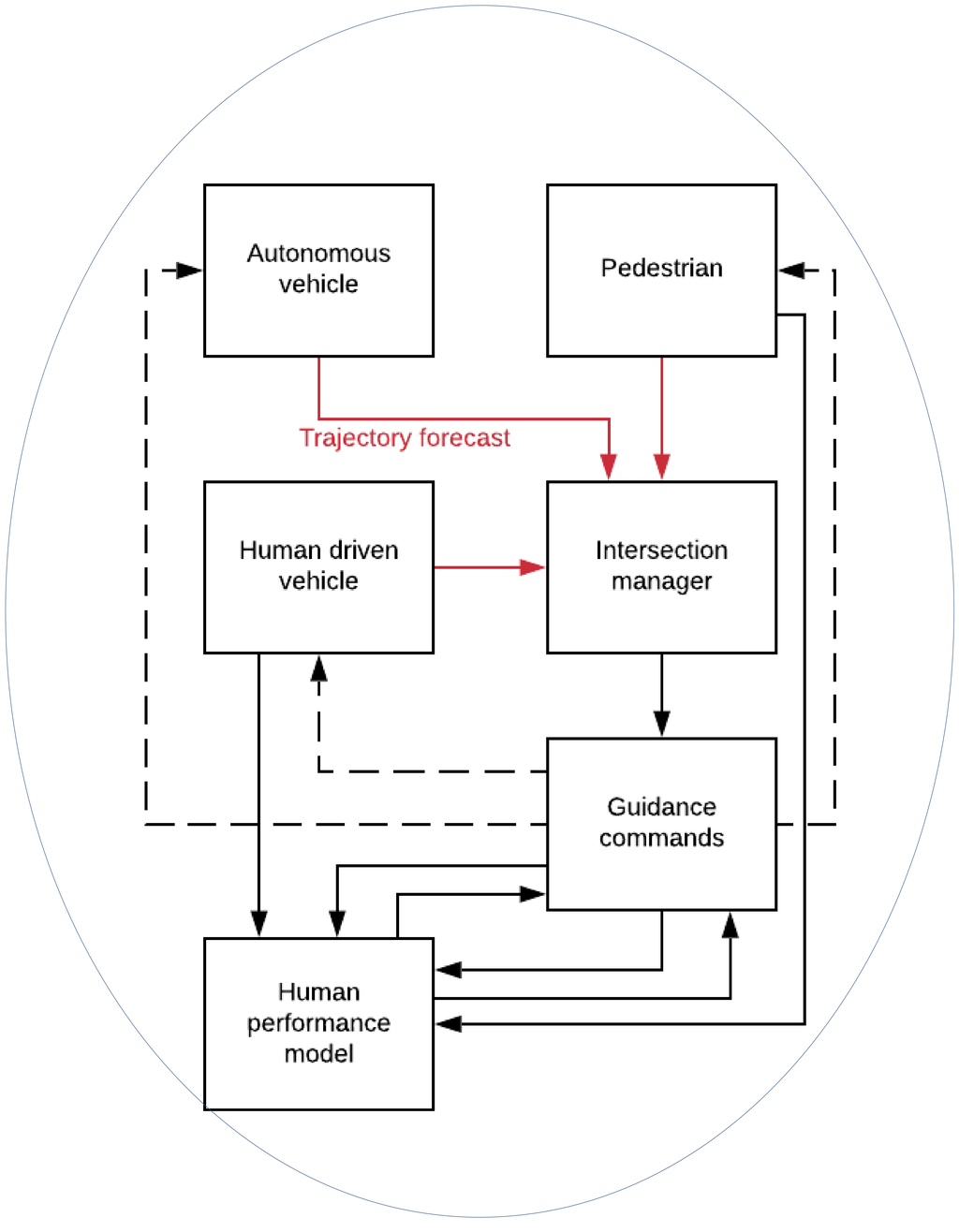
Augmented reality for control of reservation-based intersections with mixed autonomous-non autonomous flows. #1739964, 2018. University of Texas Austin and University of Washington

Challenge:

- Improve smart intersection flow with connectivity and augmented reality (AR)
- Design intersection control schemes that minimize delay while maintaining safety

Solution:

- Deep models for trajectory forecast of uncontrolled and controlled road users
- Novel intersection control schemes
- Augmented reality for visualization



Scientific Impact:

- User path prediction for autonomous vehicles
- Novel schemes for intersection control

Broader Impact:

- Graph CNN models improve prediction of user trajectories by 20 % (with x10 faster computation)
- User guidance using augmented reality is applicable to other safety-critical situations

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