**New Papers**

**Human-like Interactive Behavior Generation for Autonomous Vehicles: A Bayesian Game-Theoretic Approach with Turing Test**

Li et al., 2022 Efficient Game-Theoretic Planning with Prediction Heuristic for Socially-Compliant Autonomous Driving

**Involving Empirical Data**

**Involving Field Test**

A CGAN-based Model for Human-like Driving Decision Making

Z. Wang et al., 2021: Wang, Z. et al. (2021) ‘A CGAN-based model for human-like driving decision making’, IEEE Wireless Communications and Networking Conference, WCNC, 2021-March. doi: 10.1109/WCNC49053.2021.9417336.

2. Wang et al., 2023: A Human-Like Lane-changing Behavior Model for Autonomous Vehicles in Mixed Traffic Flow Environment

(J. Wang et al., 2023)

Xue et al., 2023: A Two-stage Based Social Preference Recognition in Multi-Agent Autonomous Driving System

Toghi et al., 2021a : Altruistic Maneuver Planning for Cooperative Autonomous Vehicles Using Multi-agent Advantage Actor-Critic (Toghi et al., 2021a) (Toghi et al., 2022)

5 Hang et al., 2020 : An Integrated Framework of Decision Making and Motion Planning for Autonomous Vehicles Considering Social Behaviors

6. Lu et al., 2022 Autonomous Overtaking for Intelligent Vehicles Considering Social Preference Based on Hierarchical Reinforcement Learning Markov decision process

7. Sun et al., 2019 Behavior Planning of Autonomous Cars with Social Perception

8. Huang et al., 2023 Conditional Predictive Behavior Planning With Inverse Reinforcement Learning for Human-Like Autonomous Driving

Z. Huang, Liu, et al., 2023 (Z. Huang, Liu, et al., 2023)

9. Toghi et al., 2021b Cooperative Autonomous Vehicles that Sympathize with Human Drivers

10. Hang, Lv, et al., 2022 Cooperative Decision Making of Connected Automated Vehicles at Multi-Lane Merging Zone: A Coalitional Game Approach

11 (Sun et al., 2018 Courteous Autonomous Cars

12 Da and Hua, 2023 CrowdGAIL: A spatiotemporal aware method for agent navigation

13 Hang, Huang, et al., 2022a Decision Making for Connected Automated Vehicles at Urban Intersections Considering Social and Individual Benefits

14 Qin et al., 2021 Deep Imitation Learning for Autonomous Navigation in Dynamic Pedestrian Environments

15. Distributed Cooperative Control and Optimization of Connected Automated Vehicles Platoon Against Cut-in Behaviors of Social Drivers

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Two-Point Visual Preview Driver Model

a three-degree-of-freedom (3-DOF) vehicle model

17. ~~Driving in Roundabouts: Why a Different Theory of Expert Cognition in Social Driving Is Needed for Self-driving Cars~~

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18: Xu et al., 2023 Driving Behavior Modeling and Characteristic Learning for Human-like Decision-Making in Highway

C. Xu et al., 2023

19 Hang, Huang, et al., 2022b Driving Conflict Resolution of Autonomous Vehicles at Unsignalized Intersections: A Differential Game Approach

20. Chang et al., 2023 Editing Driver Character: Socially-Controllable Behavior Generation for Interactive Traffic Simulation

21. Huang, Wu and Lv, 2023 Efficient Deep Reinforcement Learning With Imitative Expert Priors for Autonomous Driving

(Z. Huang, Wu, et al., 2023)

22. Li et al., 2022 Efficient Game-Theoretic Planning With Prediction Heuristic for Socially-Compliant Autonomous Driving

C. Li et al., 2022

23. J. Liu et al., 2024 Enhancing Social Decision-Making of Autonomous Vehicles: A Mixed-Strategy Game Approach With Interaction Orientation Identification

J. Liu, Qi, et al., 2024

24. Ding et al., 2022 EPSILON: An Efficient Planning System for Automated Vehicles in Highly Interactive Environments

~~25.~~ ~~Formulating Vehicle Aggressiveness Towards Social Cognitive Autonomous Driving~~

25. (Galati et al., 2022) Game theoretical trajectory planning enhances social acceptability of robots by humans

26. X. Wang et al., 2024 The Group Interaction Field for Learning and Explaining Pedestrian Anticipation

Xueyang Wang et al., 2024

27. Shu et al., 2023 Human Inspired Autonomous Intersection Handling Using Game Theory

28. Crosato et al., 2021 Human-centric Autonomous Driving in an AV-Pedestrian Interactive Environment Using SVO

29. Zong et al., 2023 Human-Like Decision Making and Planning for Autonomous Driving with Reinforcement Learning

30. Tong et al., 2024 Human-Like Decision Making at Unsignalized Intersections Using Social Value Orientation

31. Hang et al., 2021 Human-Like Decision Making for Autonomous Driving: A Noncooperative Game Theoretic Approach

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33. Taghavifar and Mohammadzadeh, 2024 Integrating deep reinforcement learning and social-behavioral cues: A new human-centric cyber-physical approach in automated vehicle decision-making

34. Song, Xiong and Chen, 2016 Intention-Aware Autonomous Driving Decision-Making in an Uncontrolled Intersection

35. Crosato, Shum, et al., 2023 Interaction-Aware Decision-Making for Automated Vehicles Using Social Value Orientation

Proximal policy optimization algorithms

36. Interaction-Aware Planning With Deep Inverse Reinforcement Learning for Human-Like Autonomous Driving in Merge Scenarios Sampled-based DIRL

~~37.~~ ~~Interactive Multi-Modal Motion Planning With Branch Model Predictive Control~~

~~37. Interactive Planning for Autonomous Driving in Intersection Scenarios Without Traffic Signs~~

37. Kothari, Sifringer and Alahi, 2021 Interpretable Social Anchors for Human Trajectory Forecasting in Crowds

38. Zhu and Zhao, 2023 Joint Imitation Learning of Behavior Decision and Control for Autonomous Intersection Navigation

Z. Zhu & Zhao, 2023

39. Peng et al., 2021 Learning to Simulate Self-Driven Particles System with Coordinated Policy Optimization

40. Wang, Fernandez and Stiller, 2023b Learning Safe and Human-Like High-Level Decisions for Unsignalized Intersections From Naturalistic Human Driving Trajectories

(Lingguang Wang et al., 2023b)

43. Wang, Fernandez and Stiller, 2023a High-Level Decision Making for Automated Highway Driving via Behavior Cloning

(Lingguang Wang et al., 2023a)

41. Bhatt, Khajepour and Hashemi, 2022 MPC-PF: Social Interaction Aware **Trajectory Prediction** of Dynamic Objects for Autonomous Driving Using Potential Fields

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44. Valiente et al., 2024 Prediction-Aware and Reinforcement Learning-Based Altruistic Cooperative Driving

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47. Zhou et al., 2022 Reasoning Graph: A Situation-aware framework for cooperating unprotected turns under mixed connected and autonomous traffic environments

Reasoning Graph-based Reinforcement Learning to Cooperate Mixed Connected and Autonomous Traffic at Unsignalized Intersections

48. Liu et al., 2020 Robot Navigation in Crowded Environments Using Deep Reinforcement Learning

49. Hirose et al., 2024 SACSoN: Scalable Autonomous Control for Social Navigation

50. M. Liu et al., 2024 Safe and Human-Like Autonomous Driving: A Predictor–Corrector Potential Game Approach

51. Kothari and Alahi, 2023 Safety-Compliant Generative Adversarial Networks for Human Trajectory Forecasting

~~52. Selfish but Socially Approved: The Effects of Perceived Collision Algorithms and Social Approval on Attitudes toward Autonomous Vehicles~~

52 Buckman et al., 2019 Sharing is Caring: Socially-Compliant Autonomous Intersection Negotiation

53. Reddy, Malviya and Kala, 2021 Social Cues in the Autonomous Navigation of Indoor Mobile Robots

54. Vemula, Muelling and Oh, 2018 Social Attention: Modeling Attention in Human Crowds

55. (Landolfi and Dragan, 2018) Social Cohesion in Autonomous Driving

56. Toghi et al., 2022 Social Coordination and Altruism in Autonomous Driving

57. Gupta *et al.*, 2018 Social GAN: Socially Acceptable Trajectories with Generative Adversarial Networks

(Gupta et al., 2018)

58. Alahi et al., 2016 Social LSTM: Human Trajectory Prediction in Crowded Spaces

(Alahi et al., 2016)

59. Huang and Sun, 2023 Social Occlusion Inference with Vectorized Representation for Autonomous Driving

(B. Huang & Sun, 2023) B. Huang & Sun

60. L. Zhang et al., 2023 Social-aware Planning and Control for Automated Vehicles Based on Driving Risk Field and Model Predictive Contouring Control: Driving through Roundabouts as a Case Study

(L. Zhang et al., 2023)

61. Schwarting et al., 2019 Social behavior for autonomous vehicles

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62. L. Wang et al., 2021 Socially-Compatible Behavior Design of Autonomous Vehicles With Verification on Real Human Data

(Letian Wang et al., 2021) Letian Wang et al. L. Wang et al., 2021

63. Sadeghian *et al.*, 2019 SoPhie: An Attentive GAN for Predicting Paths Compliant to Social and Physical Constraints

(Sadeghian et al., 2019)

64. S4TP: Social-Suitable and Safety-Sensitive Trajectory Planning for Autonomous Vehicles

(X. Wang et al., 2024) (X. Wang et al., 2024) Xiao Wang et al., 2024 之后的都是新格式

To Develop Human-like Automated Driving Strategy Based on Cognitive Construction: Appraisal and Perspective

a cognitive architecture and Perspective

65. Towards Socially Responsive Autonomous Vehicles: A Reinforcement Learning Framework With Driving Priors and Coordination Awareness

J. Liu, Zhou, et al., 2024 (Liu et al., 2024)

66. Two-Dimensional Following Lane-Changing (2DF-LC): A Framework for Dynamic Decision-Making and Rapid Behavior Planning

(Chen et al., 2024)

67. Visually-guided motion planning for autonomous driving from interactive demonstrations

(Pérez-Dattari et al., 2022)

~~68. new added 202411 Human-like Interactive Behavior Generation for Autonomous Vehicles: A Bayesian Game-Theoretic Approach with Turing Test~~

~~(Y. Zhang et al., 2022)~~

68 Kolekar et al., 2020 Human-like driving behaviour emerges from a risk-based driver model

Kolekar et al., 2020

**Codes to generate figure**

// Enter Flows between Nodes, like this:

// Source [AMOUNT] Target

To Add

**//Expert** [1] Expert demonstration

Qin et al., 2021 [1] Expert demonstration

Da and Hua, 2023 [1] Expert demonstration

Huang et al., 2023 [1] Expert demonstration

Huang, Wu and Lv, 2023 [1] Expert demonstration

J. Liu, Qi, et al., 2024 [1] Expert demonstration

Nan et al., 2024 [1] Expert demonstration

Zhu and Zhao, 2023 [1] Expert demonstration

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Attention Module (Kothari & Alahi, 2023; J. Liu, Zhou, et al., 2024; Qin et al., 2021; Sadeghian et al., 2019; Vemula et al., 2018; Z. Wang et al., 2021; Xue et al., 2023)

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~~//Y. Zhang et al., 2022~~

Qin et al., 2021 [1] Expert demonstration

Da and Hua, 2023 [1] Expert demonstration

Huang et al., 2023 [1] Expert demonstration

Huang, Wu and Lv, 2023 [1] Expert demonstration

J. Liu, Qi, et al., 2024 [1] Expert demonstration

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Zhu and Zhao, 2023 [1] Expert demonstration

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Da & Hua, 2023 [1] Markov Decision Process

Ding et al., 2022 [1] Markov Decision Process

Z. Huang, Wu, et al., 2023 [1] Markov Decision Process

J. Liu, Zhou, et al., 2024 [1] Markov Decision Process

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//68 Kolekar et al., 2020

Kolekar et al., 2020 [1] Involving Simulation

Kolekar et al., 2020 [1] Risk Field

Risk Field [1] Field-based Model

Kolekar et al., 2020 [1] Addressing Uncertainties

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Pérez-Dattari et al., 2022 [1] Involving Simulation

Pérez-Dattari et al., 2022 [1] Model Predictive Control

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CNN [1] Deep Learning

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Chen et al., 2024 [1] Involving Simulation

Chen et al., 2024 [1] Involving Empirical Data

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J. Liu, Zhou, et al., 2024 [1] Involving Simulation

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Coordination Tendency [1] Employing Social Factor

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GRU [1] Deep Learning

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Actor-Critic [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

J. Liu, Zhou, et al., 2024 [1] Proximal Policy Optimisation

Proximal Policy Optimisation [1] Reinforcement Learning

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//64

Xiao Wang et al., 2024 [1] Transformer

Transformer [1] Deep Learning

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Xiao Wang et al., 2024 [1] Risk Field

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//62 Letian Wang et al. L. Wang et al., 2021

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Schwarting et al., 2019 [1] Involving Simulation

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L. Zhang et al., 2023 [1] Risk Field

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//59 B. Huang & Sun Huang and Sun, 2023

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Alahi et al., 2016 [1] Involving Empirical Data

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Alahi et al., 2016 [1] Social Pooling Layer

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//Social Pooling Layer: (Alahi et al., 2016; Gupta et al., 2018)

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Ferrer and Sanfeliu, 2014 [1] Involving Simulation

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//(Lingguang Wang et al., 2023b)

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//38 Zhu and Zhao, 2023 Z. Zhu & Zhao, 2023

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Graph Attention Network [1] Deep Learning

Deep Learning [1] Machine Learning

Xueyang Wang et al., 2024 [1] Involving Empirical Data

//25

Galati et al., 2022 [1] Nash Equilibrium-based Game

Nash Equilibrium-based Game [1] Game Theory

//24

//Ding et al., 2022 [1] Markov Decision Process

Ding et al., 2022 [1] LSTM

LSTM [1] Deep Learning

Deep Learning [1] Machine Learning

Ding et al., 2022 [1] CNN

CNN [1] Deep Learning

Deep Learning [1] Machine Learning

Ding et al., 2022 [1] Involving Empirical Data

Ding et al., 2022 [1] Involving Controlled Field Test

//23 J. Liu, Qi, et al., 2024 注意不同的citation format

**//J. Liu et al., 2024**

//J. Liu et al., 2024 [1] Involving Empirical Data

//J. Liu et al., 2024 [1] Involving Simulation

//J. Liu et al., 2024 [1] Nash Equilibrium-based Game

//Nash Equilibrium-based Game [1] Game Theory

//J. Liu et al., 2024 [1] Genetic Algorithm //check

**//J. Liu, Qi, et al., 2024**

J. Liu, Qi, et al., 2024 [1] Involving Empirical Data

J. Liu, Qi, et al.,2024 [1] Involving Simulation

J. Liu, Qi, et al., 2024 [1] Nash Equilibrium-based Game

Nash Equilibrium-based Game [1] Game Theory

J. Liu, Qi, et al., 2024 [1] Genetic Algorithm //check

//22

//C. Li et al., 2022

//Li et al., 2022

C. Li et al., 2022 [1] Bayesian Inference

C. Li et al., 2022 [1] Stackelberg Game

Stackelberg Game [1] Game Theory

C. Li et al., 2022 [1] Courtesy

Courtesy [1] Employing Social Factor

C. Li et al., 2022 [1] Involving Empirical Data

//21

//Z. Huang, Wu, et al., 2023

//Huang, Wu and Lv, 2023

Z. Huang, Wu, et al., 2023 [1] Actor-Critic

Actor-Critic [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Z. Huang, Wu, et al., 2023 [1] Deep Q-learning

Deep Q-learning [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Z. Huang, Wu, et al., 2023 [1] Involving Simulation

Z. Huang, Wu, et al., 2023 [1] Addressing Uncertainties

//20

Chang et al., 2023 [1] Courtesy

Courtesy [1] Employing Social Factor

Chang et al., 2023 [1] Involving Empirical Data

Chang et al., 2023 [1] LSTM

LSTM [1] Deep Learning

Deep Learning [1] Machine Learning

Chang et al., 2023 [1] MLP

MLP [1] Deep Learning

Deep Learning [1] Machine Learning

//19

Hang, Huang, et al., 2022b [1] Involving Simulation

Hang, Huang, et al., 2022b [1] Potential Field

Potential Field [1] Field-based Model

Hang, Huang, et al., 2022b [1] Stackelberg Game

Stackelberg Game [1] Game Theory

Hang, Huang, et al., 2022b [1] Nash Equilibrium-based Game

Nash Equilibrium-based Game [1] Game Theory

//18

//C. Xu et al., 2023

//Xu et al., 2023

C. Xu et al., 2023 [1] Involving Simulation

C. Xu et al., 2023 [1] Particle Filtering

C. Xu et al., 2023 [1] Inverse Reinforcement Learning

Inverse Reinforcement Learning [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

//17 ~~Sanchez Garcia and Araujo, 2021~~ **Oliveira et al., 2019**

Oliveira et al., 2019 [1] Involving Controlled Field Test

//16

Yan et al., 2022 [1] Involving Simulation

Yan et al., 2022 [1] Potential Field

Potential Field [1] Field-based Model

Yan et al., 2022 [1] Model Predictive Control

//15

Wang et al., 2024 [1] Finite State Machine

Wang et al., 2024 [1] Involving Simulation

//14

Qin et al., 2021 [1] CNN

CNN [1] Deep Learning

Deep Learning [1] Machine Learning

Qin et al., 2021 [1] Involving Empirical Data

//13

Hang, Huang, et al., 2022a [1] Coalitional Game

Coalitional Game [1] Game Theory

Hang, Huang, et al., 2022a [1] Model Predictive Control

Hang, Huang, et al., 2022a [1] Potential Field

Potential Field [1] Field-based Model

//12

Da and Hua, 2023 [1] Generative Adversarial Network

Generative Adversarial Network [1] Deep Learning

Deep Learning [1] Machine Learning

Da and Hua, 2023 [1] LSTM

LSTM [1] Deep Learning

Deep Learning [1] Machine Learning

Da and Hua, 2023 [1] Involving Simulation

Da and Hua, 2023 [1] MLP

MLP [1] Deep Learning

Deep Learning [1] Machine Learning

//11

Sun et al., 2018 [1] Inverse Reinforcement Learning

Inverse Reinforcement Learning [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Sun et al., 2018 [1] Model Predictive Control

Sun et al., 2018 [1] Involving Simulation

Sun et al., 2018 [1] Involving Empirical Data

Sun et al., 2018 [1] Courtesy

Courtesy [1] Employing Social Factor

//10

Hang, Lv, et al., 2022 [1] Coalitional Game

Coalitional Game [1] Game Theory

Hang, Lv, et al., 2022 [1] Model Predictive Control

Hang, Lv, et al., 2022 [1] Involving Simulation

// 9

Toghi et al., 2021b [1] Deep Q-learning

Deep Q-learning [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Toghi et al., 2021b [1] Involving Simulation

Toghi et al., 2021b [1] Partially Observable Stochastic Game

Partially Observable Stochastic Game [1] Game Theory

// Partially Observable Stochastic Games (POSG)

//8 Z. Huang, Liu, et al., 2023 Huang et al., 2023

Z. Huang, Liu, et al., 2023 [1] Inverse Reinforcement Learning

Inverse Reinforcement Learning [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Z. Huang, Liu, et al., 2023 [1] Transformer

Transformer [1] Deep Learning

Deep Learning [1] Machine Learning

Z. Huang, Liu, et al., 2023 [1] Involving Empirical Data

//7

Sun et al., 2019 [1] Inverse Reinforcement Learning

Inverse Reinforcement Learning [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Sun et al., 2019 [1] Involving Simulation

Sun et al., 2019 [1] Model Predictive Control

Sun et al., 2019 [1] Addressing Uncertainties

//6

Lu et al., 2022 [1] Deep Q-learning

Deep Q-learning [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Lu et al., 2022 [1] Involving Simulation

Lu et al., 2022 [1] Social Preference

Social Preference [1] Employing Social Factor

//5

Hang et al., 2020 [1] Stackelberg Game

Stackelberg Game [1] Game Theory

Hang et al., 2020 [1] Model Predictive Control

Hang et al., 2020 [1] Potential Field

Potential Field [1] Field-based Model

//4

Toghi et al., 2021a [1] Social Value Orientation

Social Value Orientation [1] Employing Social Factor

Toghi et al., 2021a [1] Actor-Critic

Actor-Critic [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

Toghi et al., 2021a [1] Involving Simulation

//3

Xue et al., 2023 [1] Social Value Orientation

Social Value Orientation [1] Employing Social Factor

Xue et al., 2023 [1] Partially Observable Stochastic Game

Partially Observable Stochastic Game [1] Game Theory

Xue et al., 2023 [1] Actor-Critic

Actor-Critic [1] Reinforcement Learning

Reinforcement Learning [1] Machine Learning

//2

//(J. Wang et al., 2023)

//Wang et al., 2023

J. Wang et al., 2023 [1] Nash Equilibrium-based Game

Nash Equilibrium-based Game [1] Game Theory

// Nash equilibrium

J. Wang et al., 2023 [1] Model Predictive Control

J. Wang et al., 2023 [1] Bayesian Inference

J. Wang et al., 2023 [1] Risk Field

Risk Field [1] Field-based Model

J. Wang et al., 2023 [1] Involving Simulation

J. Wang et al., 2023 [1] Involving Empirical Data

//1

Z. Wang et al., 2021 [1] Generative Adversarial Network

Generative Adversarial Network [1] Deep Learning

Deep Learning [1] Machine Learning

Z. Wang et al., 2021 [1] Involving Simulation

Z. Wang et al., 2021 [1] Involving Empirical Data

// New Begin end

//

//

## End

Li et al., 2022 [1] Involving Simulation

// Li et al., 2022 [1] Involving Field Test

Li et al., 2022 [1] Monte Carlo Tree Search

Li et al., 2022 [1] Game Theory

Li et al., 2022 [1] Bayesian Inference

J. Liu et al., 2024 [1] Game Theory

J. Liu et al., 2024 [1] Genetic Algorithm

J. Liu et al., 2024 [1] Involving Simulation

J. Liu et al., 2024 [1] Involving Empirical Data

Peng et al., 2021 [1] Deep Learning

Peng et al., 2021 [1] Social Value Orientation

Alahi et al., 2016 [1] Deep Learning

Ferrer and Sanfeliu, 2014 [1] Social Force Model

Yoon and Ayalew, 2019 [1] Social Force Model

Hang et al., 2022 [1] Risk/Driving/Potential Field Model

Hang et al., 2020 [1] Risk/Driving/Potential Field Model

Kolekar et al., 2020 [1] Risk/Driving/Potential Field Model

Hang et al., 2021 [1] Risk/Driving/Potential Field Model

Schwarting et al., 2019 [1] Deep Learning

Schwarting et al., 2019 [1] Social Value Orientation

Schwarting et al., 2019 [1] Game Theory

Hang et al., 2020 [1] Game Theory

Hang et al., 2022 [1] Game Theory

Toghi et al., 2021a [1] Game Theory

Toghi et al., 2021a [1] Social Value Orientation

L. Wang et al., 2021 [1] Game Theory

Hang et al., 2021 [1] Game Theory

Buckman et al., 2019 [1] Social Value Orientation

Toghi et al., 2021b [1] Deep Learning

Toghi et al., 2021b [1] Social Value Orientation

Hang et al., 2020 [1] Model Predictive Control

Larsson et al., 2021 [1] Model Predictive Control

Larsson et al., 2021 [1] Social Value Orientation

Sun et al., 2018 [1] Model Predictive Control

Sun et al., 2019 [1] Model Predictive Control

L. Wang et al., 2021 [1] Model Predictive Control

Yoon and Ayalew, 2019 [1] Model Predictive Control

Hang et al., 2021 [1] Model Predictive Control

Ferrer and Sanfeliu, 2014 [1] Deep Learning

Jaques et al., 2019 [1] Deep Learning

Sun et al., 2018 [1] Deep Learning

Sun et al., 2019 [1] Deep Learning

Toghi et al., 2021a [1] Deep Learning

//Toghi et al., 2021b [1] Deep Learning

Vemula et al., 2018 [1] Deep Learning

L. Wang et al., 2021 [1] Deep Learning

Yoon and Ayalew, 2019 [1] Deep Learning

// Social Factors Integrated Prediction

Alahi et al., 2016 [1] Social Factors Integrated Prediction

Gupta et al., 2018 [1] Social Factors Integrated Prediction

Jaques et al., 2019 [1] Social Factors Integrated Prediction

Vemula et al., 2018 [1] Social Factors Integrated Prediction

Vemula et al., 2018 [1] Deep Learning

Gupta et al., 2018 [1] Deep Learning

// Handling Uncertainty

Kolekar et al., 2020 [1] Handling Uncertainty

Sun et al., 2019 [1] Handling Uncertainty

L. Wang et al., 2021 [1] Handling Uncertainty

//Involving Simulation

Buckman et al., 2019 [1] Involving Simulation

Ferrer and Sanfeliu, 2014 [1] Involving Simulation

Hang et al., 2020 [1] Involving Simulation

Hang et al., 2022 [1] Involving Simulation

Hang et al., 2021 [1] Involving Simulation

Kolekar et al., 2020 [1] Involving Simulation

Larsson et al., 2021 [1] Involving Simulation

Schwarting et al., 2019 [1] Involving Simulation

Sun et al., 2018 [1] Involving Simulation

Sun et al., 2019 [1] Involving Simulation

Toghi et al., 2021a [1] Involving Simulation

Toghi et al., 2021b [1] Involving Simulation

L. Wang et al., 2021 [1] Involving Simulation

Yoon and Ayalew, 2019 [1] Involving Simulation

//Involving Empirical Data/ Field Test

Sun et al., 2018 [1] Involving Empirical Data/ Field Test

L. Wang et al., 2021 [1] Involving Empirical Data/ Field Test

Ferrer and Sanfeliu, 2014 [1] Involving Empirical Data/ Field Test

Oliveira et al., 2019 [1] Involving Empirical Data/ Field Test

//adopted methods[1] deep learning

//adopted methods[1] deep learning

//adopted methods[1] Food

//adopted methods[1] Transportation

//adopted methods[1] Savings

// You can set a Node's color, like this:

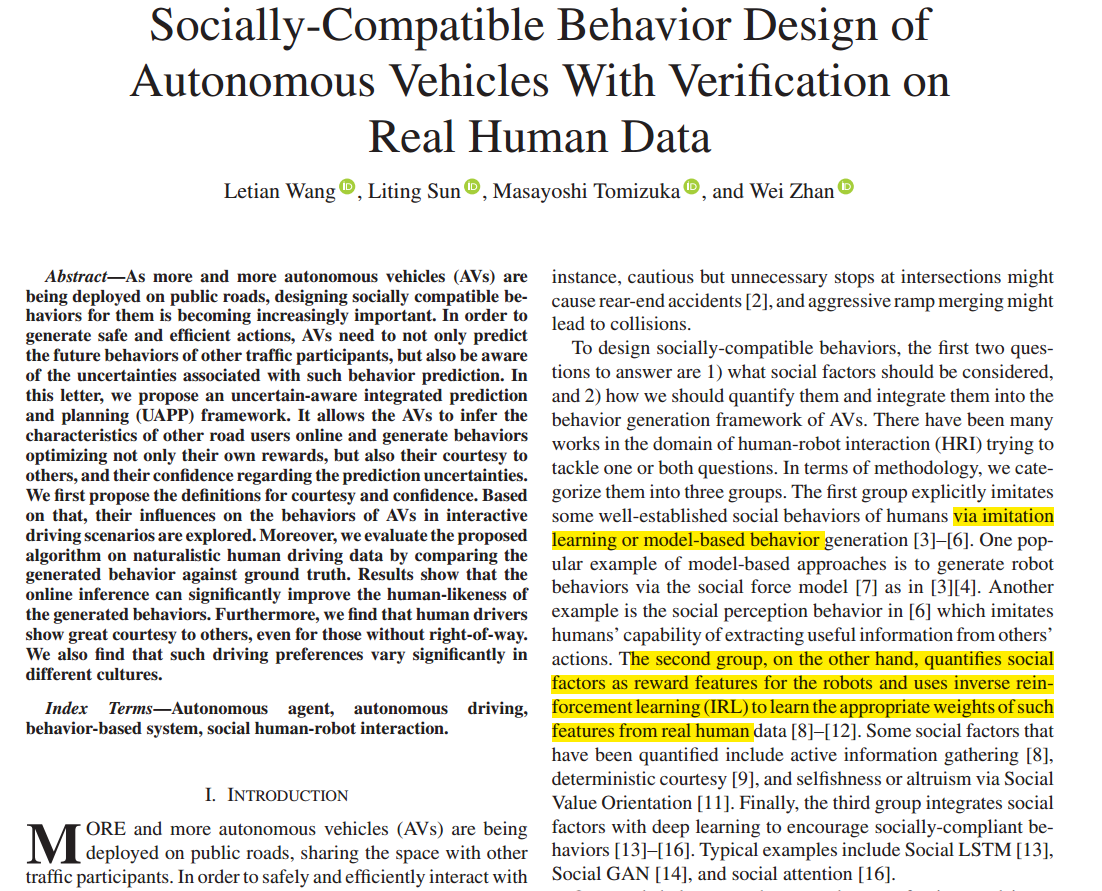
:Budget #708090

// ...or a color for a single Flow:

//Budget [160] Other Necessities #0F0

// Use the controls below to customize

// your diagram's appearance...



**Application Scenarios**

Alahi et al., 2016 [1] Pedestrian Trajectory Prediction

Buckman et al., 2019 [1] Intersection

(Toghi et al., 2021b)

(Sun et al., 2019) Inverse reinforcement learning

<https://www.vosviewer.com/>

<https://sankeymatic.com/build/>

<https://plotly.com/python/sankey-diagram/>

We define socially compliant driving as behaving predictably and complies with the social expectations of other human drivers and autonomous agents during the sequences of driving social dilemmas.

We define socially compliant driving as behaving predictably to other human and autonomous agents during the sequence of driving social dilemmas.

We define socially-compliant driving as behavior during this sequence of social dilemmas that complies with the social expectations of the group.

Our goal is to design autonomous system policies that conform to the sociallycompliant driving expected by the human drivers, which is fundamentally important for the safety of all passengers.

https://sankeymatic.com/build/?i=PTAEFEDsBcFMCdQDEA2B7A7gZ1AI1tBrLJKAHJoAmsWANKCgJYDWso0AFo1gFwBQIUEOHCAymgCu8AMZsA2gEEAsgHkAqmQAqAXVCaAhvADmBPnwUp9XUAVD6UAOnoAmAAwBGAGyg573QBFiAAdQABlYQ0hGSCMzJAR4BDtISlBRfUgAM1gmCRcPABYfPzS0aUZ7ZDQZNiUqHL4ATTQ0UgzUhQBPe1gMfPcATmLdcXLKpGrZUDrqFDMACQyjG2g7R3znZ2HQACVuZmB%2DeEYAN2ijYAAFNDgYCpRkRhzUmYbFmJW1p1A3N229rAHI6nc5XG4kaD3R7Pab1OYAaTQKFgzEMn3s31%2Brn%2B%2B0OxzOMTBt0h4yeKBecIWS3R6x%2Brmc7hxgLxIMJ12JUKQZIpszMfFE0g4GEMkI%2Btgx%2DSGvgCwTCEXgURi%2DMFwvgouW4tpbkG21GUIAavYJGwVMcIfpIa1lUKRecaZiPFKSgBxfQAWzYmg4sGqnSpYtWErpf2loFdHr03t9fHeGsDWvpW1D4c9Ufgfr4mjQRmsmodDP02xTkZ96cz2dz8fz7kLob1lUNKGNoFNTxgFsYVr4AHVqXmNozk%2B7U6W%2DbH7QOi8OS9GzAAhCTSZhujITuk6utlA1Gk1m9uW0h8rM5xhr37uXDbQKwELhSLncsns%2D0i%2B6rcNnctvfQDtd8f94NsVDV4HkuRJKEYaRIRONgAGFWmgeAkT4UJDCwLBWmfBlthA0AwNgCCoNOOCEKQuZUPgdDMIA883zGB5G2bVtzQPMxRAkUgaI8AAOHC4Tw8DIOgkiYDI%2DkOOfDcSlw%2DDCOE0B4NE5DewDL5J2A%2DjZKE4iFNI5Dmkw9pQC6Ho%2BnXJ1dBkwSiJg3SlLmf8q3U6TNOs%2BTFMQ5C4gSJIjPSLIckYPJ1yKUNr1veVFViAApfQAEdjRwLipJlG85XvJV2M4pz114sLZTvBUHyyySLNAcL0qKpVj0rNTgxrK8Csih8QBq08uIZS98rSwqor4fVYDdCRLEkvKSgq3qHxUuM6to7qIoy2IDLaFJjO6ZEzO1MqJuapUBDAesHiQfQoOqHAAEkYFgIx4AtAiBII7SrQsKx2py7VvE3ejkBO6AztAS64Buu7Ui0oirWdCQgh%2DUa6M5X7%2DsB67brgUG3M7SA%2BFihKaFKuHxgRyiAau4HUYeuSMf6wbhsLZKxpGd8jsJi6SZR%2B6wdYgahpGunGp63bYkh6Hafeni%2BYWqrYj5fbQHeSgmA%2BNRIFkNV9GiaA%2DURZFUUQDqgJKOWFeWJWVZ%2DdW%2DRK5KysNu0TYQM2YD9aasMHA32iN0A7dV82zBAS6TiRAlllERhud%2DTGFyXFdstmx1tn9wO7RDsPWPieBEkQPyMmyXJ%2BlCkoE5QIO0lDmnWMc2OQwLyAA6LpPS8scu%2B1FzZ45rxOPmTsvKYroM5ur2vi67xvKb4LWUTRPW28H%2BuU8piiqJjvuX2njvg4b8PrVVdU8dDQuh431jLdF9x6eJmfO8Pynj9jlLz7Xku56tNqXdrAeH%2BHzeX46189%2DbuvL5P0xs7H%2Bq8AHryAU0FoK0OjrV6JKMBB9IH7X3nacAbogiMGONISo%2DgLT6DAFyGEmgaDQHEkvBMp9EFoIwVgyCuD8GEO5HoUhPZm6V1droVBHx0GYOwQwn8TDiGsLThnZIqR%2DI5yCnnahPDaH8IeHgwR0JyQsKwGQlQTAYJYJFrfMq3Dli8LoTgxRjCVGpBIeooQfAsCMAAF5sAwKAdwrgCiuD4EIDgoBPCuHcSuYw0QGCgAGAMDxoBEDuKEKsU%2BYTLzuNwMsaQSJqigAAMSZAyZksJiEMhYCCIYCE5A%2BCQHqKAJxoTPGgAKO4MJeSTp2gGK4BwABWWJ1RqAROyd6CM%2BgwlJPQIgVJ3FhkjLCWgfJ5QNbOL4JkdATjpBSBOBaKQbAmkFGcGE6I3pjjQEyEhN0oAMJSFkH05JgyQkXIqaAcZ9SplNOaa0ywnRJCrHab5CQf0VyQmkGEgAVhIdRjBMjPOOEYaIOAyB%2DIBZCYFJBKAQrCYkGClFkb6CCF4yFQgLQ%2DkFNEJJGDkRwHUWgUAkB5SsMsPgFAOB%2BkpNSb4hlkTQBcGoEUzxjAcxMBzKsJpAB2MJmQEKZBOmwLAuSAC0WAEBArCQrGgEy7RNIAMyIpyB2GCtiHHOJcWElcRgojAucb4vglKciQGnGioI8ocCNFqfYtg7hWlCCIByjgqw3HuNNUXT8lrrWgFtUITIw0UBBESOUWxmEA2gCCGgWxB47CZDgPAMJLruVVONV6mNcaMZ2A%2BWgewHLSDipqUILAgpBpsCtfAAA%2Buo%2DQJgBVYKsfoRNCBYmJH0MwGN6sfh8CWU2Nggr4BfNAAAcloA4UdYTQ2wEyIwAAHmOqdpaJAZIXUuvgnAK1oAyVKwMoAVVCDiX00ATLUh%2BIIIWD0dxWhisgKwToXzIJsoYNwSEbpcD2AyLIG1QA

**Driving manoeuvres**

// Enter Flows between Nodes, like this:

// Source [AMOUNT] Target

Li et al., 2022 [1] Roundabout

Roundabout [1] Intersection

J. Liu et al., 2024 [1] Unprotected left turn

Unprotected left turn [1] Intersection

Peng et al., 2021 [1] Unsignalized intersection

Unsignalized intersection [1] Intersection

Peng et al., 2021 [1] Roundabout

Roundabout [1] Intersection

Peng et al., 2021 [1] Tollgate

Peng et al., 2021 [1] Bottleneck

Peng et al., 2021 [1] Parking lot

Buckman et al., 2019 [1] Intersection

Alahi et al., 2016 [1] Human trajectory prediction/robot navigating around humans

Ferrer and Sanfeliu, 2014 [1] Human trajectory prediction/robot navigating around humans

Yoon and Ayalew, 2019 [1] Lane change

Hang et al., 2022 [1] Intersection

Hang et al., 2020 [1] Lane change

Hang et al., 2021 [1] Merging

Hang et al., 2021 [1] Overtaking

Merging [1] Lane change

Overtaking [1] Lane change

Kolekar et al., 2020 [1] Car following

Kolekar et al., 2020 [1] Overtaking

Overtaking [1] Lane change

Schwarting et al., 2019 [1] Unprotected left turn

Unprotected left turn [1] Intersection

Schwarting et al., 2019 [1] Lane change

Toghi et al., 2021a [1] Merging

Merging [1] Lane change

Toghi et al., 2021b [1] Car following

// Highway driving

Toghi et al., 2021b [1] Lane change

// Highway driving

L. Wang et al., 2021 [1] Roundabout

Roundabout [1] Intersection

Larsson et al., 2021 [1] Car following

Sun et al., 2018 [1] Lane change

Sun et al., 2018 [1] Unprotected left turn

Unprotected left turn [1] Intersection

Sun et al., 2018 [1] Overtaking

Overtaking [1] Lane change

Sun et al., 2019 [1] Intersection

Vemula et al., 2018 [1] Human trajectory prediction/robot navigating around humans

// Social Factors Integrated Prediction

Gupta et al., 2018 [1] Human trajectory prediction/robot navigating around humans

// Handling Uncertainty

//Involving Simulation

//Involving Empirical Data/ Field Test

Oliveira et al., 2019 [1] T-junctions

T-junctions [1] Intersection

Lane change [10] Longitudinal and lateral control

Intersection [7] Longitudinal and lateral control

Car following [1] Only longitudinal control

// You can set a Node's color, like this:

:Budget #708090

// ...or a color for a single Flow:

Budget [160] Other Necessities #0F0

// Use the controls below to customize

// your diagram's appearance...

(Buckman et al., 2019; Garcia and Araujo, 2021; Hang et al., 2022, 2020; Kolekar et al., 2020; Oliveira et al., 2019; Schwarting et al., 2019; Sun et al., 2019, 2018; Toghi et al., 2021a, 2021b; L. Wang et al., 2021; Yoon and Ayalew, 2019)