1. Combating Reinforcement Learning’s Sisyphean Curse with Intrinsic Fear (2018)
2. Conservative safety critics for exploration (2020)
3. Recovery RL: Safe Reinforcement Learning with Learned Recovery Zones (2020)
4. Accelerating Safe Reinforcement Learning with Constraint-mismatched Policies (2020)
5. Enforcing Robust Control Guarantees within Neural Network Policies
6. Safe Reinforcement Learning via Shielding
7. Safe Reinforcement Learning via Curriculum Induction
8. Constrained Model-based RL with Robust Cross-Entropy Method
9. Go-Explore: a New Approach for Hard-Exploration Problems
10. Learning Gentle Object Manipulation with Curiosity-Driven Deep RL
11. Survival-Oriented RL Model: An Efficient and Robust Deep RL Algorithm for Autonomous Driving Problem

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|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | ours |
| 1. | off | off | off | on | on | off |  |  |  |  |  | on |
| 2. | concept | 🗴 | 🗴 | Baseline policy (🗴) | 🗴 |  |  |  |  |  |  | info |
| 3. | 🗸 | 🗴 | 🗸 | 🗴 | 🗴 |  |  |  |  |  |  |  |
| 4. | 🗴 | 🗸 | 🗸 | 🗴 | 🗴 | Protection |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

1. Whether have the access to offline data (off-policy, on-policy)
2. Prior knowledge (information, concept, binary) in danger
   1. Whether have the concept of danger state
   2. Whether have the information of danger state
3. Augmenting RL model with an extra function approximation
4. Modifying action