

1. Title: ZP-Turn data set  
Updated July 11 2018 by M. G. Carneiro

2. Feature Information:

| NAME                  | VALUES  | NORMALIZATION |
|-----------------------|---|---------------|
| 2.1 POSITION          | {SB, BB, UTG, MP, CO, BU}                       | min-max       |
| 2.2 EHS               | REAL  | min-max       |
| 2.3 TOTAL_POT         | REAL  | min-max       |
| 2.4 POT_ODDS          | REAL  | min-max       |
| 2.5 BOARD_SUIT        | {Rainbow, TwoSuited, Monotone}                  | min-max       |
| 2.6 BOARD_CARDS       | {NoPared, Pared, Triplet}                       | min-max       |
| 2.7 BOARD_CONNECT     | {Connect, SemiConnect, Disconnect}              | min-max       |
| 2.8 PREV_ROUND_ACTION | {Check, Call, Bet, Raise}                       | min-max       |
| 2.9 PREVIOUS_ACTION   | {NoAction, Check, Bet, BetAndCall, BetAndRaise} | min-max       |
| 2.10BET_VILLAIN       | REAL  | min-max       |
| 2.11AGG               | {IPvsAgg, HeroAgg, 00PvsAgg}                    | min-max       |
| 2.12IP_VS             | {0, 1, 2, 3, 4, 5}                              | min-max       |
| 2.1300P_VS            | {0, 1, 2, 3, 4, 5}                              | min-max       |
| 2.14ACTION_HERO       | {Fold, Check, Call, Bet, Raise}                 |               |

3. Metadata:

| #Objects | #Attributes | #Classes [Class Distribution]       |
|----------|-------------|-------------------------------------|
| 15649    | 14          | 5 [8.4%, 49.6%, 11.0%, 29.5%, 1.5%] |

4. Target Class: ACTION\_HERO

5. For a complete description about this data set, please read the following paper:

Murillo G. Carneiro and Gabriel A. Lisboa, What's the next move? Learning Player Strategies in Zoom Poker Games.  
In IEEE Congress on Evolutionary Computation, 2018, pp. 1951-1958.

6. Contact information:

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7. Please cite the following paper when using this data set:

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@inproceedings{carneiro_alves2018,  
  title={What's the next move? Learning Player Strategies in Zoom Poker Games},  
  author={Murillo G. Carneiro and Gabriel A. Lisboa},  
  booktitle={IEEE Congress on Evolutionary Computation},  
  pages={1951--1958},  
  year={2018}  
}
```