

# BDI-Learning Test Matrix

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Table 1: BDI-Learning Test Matrix

|   | <i>test01v1</i> | <i>test02v1</i> | <i>test03v1</i> | <i>test04v1</i> | <i>test05v1</i> | <i>test01v10g</i> | <i>test02v10g</i> | <i>test03v5g</i> | <i>test03bv5g</i> | <i>test04v5g</i> | <i>test05v5g</i> | <i>testDummyvars</i> | <i>testEcai</i> | <i>testImpactvars</i> | <i>testMultiSolutions</i> |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|------------------|-------------------|------------------|------------------|----------------------|-----------------|-----------------------|---------------------------|
| GPT suits (S)table / (N)eutral / (C)oncurrent | C               | S               | C               | N               | S               | C                 | S                 | C                | C                 | N                | S                | N                    | N               | N                     | N                         |
| Stochastic Environment                        | ✓               | ✓               | ✓               | ✓               | ✓               | ✓                 | ✓                 | ✓                | ✓                 | ✓                | ✓                | ✓                    | ✓               | ✓                     | ✓                         |
| Action Pre-Conditions                         | ✓               | ✓               | ✓               | ✓               | ✓               | ✓                 | ✓                 | ✓                | ✓                 | ✓                | ✓                | ✓                    | ✓               | ✓                     | ✓                         |
| Multiple Worlds                               |                 |                 |                 |                 |                 | ✓                 | ✓                 | ✓                | ✓                 | ✓                | ✓                | ✓                    | ✓               | ✓                     | ✓                         |
| Action Post-Conditions                        |                 |                 |                 |                 |                 | ✓                 | ✓                 | ✓                | ✓                 | ✓                | ✓                |                      | ✓               |                       |                           |
| Solution in Multiple Top Level Sub-trees      |                 |                 |                 |                 |                 |                   |                   |                  |                   |                  |                  |                      | ✓               | ✓                     | ✓                         |
| Multiple Solutions for Some Worlds            |                 |                 |                 |                 |                 |                   |                   |                  |                   |                  |                  |                      |                 |                       | ✓                         |
| <i>Conflicting Goal Interdependence</i>       |                 |                 |                 |                 |                 |                   |                   |                  |                   |                  |                  |                      |                 |                       |                           |
| <i>Failure Recovery</i>                       |                 |                 |                 |                 |                 |                   |                   |                  |                   |                  |                  |                      |                 |                       |                           |
|   |                 |                 |                 |                 |                 |                   |                   |                  |                   |                  |                  |                      |                 |                       |                           |