

Figure 2 shows two 5x5 matrices, labeled 2.b and 3., representing binary strings. The matrices are composed of colored circles (grey, red, purple, green) arranged in a grid. Matrix 2.b has columns 1 through 4 grey and column 5 green. Matrix 3. has columns 1 through 3 grey, 4 red, 5 purple, and 6 green.

1. Find coordinate activated by pre-knowledge
  - 2.a Find coordinates and function activated
  - 2.b Recursively find until no new activations
  3. Execute explicit SINDy
  4. Find every function and coordinate not activated by the explicit solution
  5. Execute implicit SINDy on the remaining components

## 6. Combine the mixed SINDy solution

Final solution :  $s = [ \text{yellow}, \text{red}, \text{red}, \text{grey}, \text{blue}, \text{grey}, \text{grey}, \text{grey}, \text{grey}, \text{yellow} ]$

 : non-null coordinate/function data

■ : pre-knowledge ■ : explicit solution ■ : implicit solution