

Figure 1 shows a 3x3 grid of 3x3 subgrids, each representing a different spin configuration. The subgrids are labeled (a) through (i) in the bottom right corner. Each subgrid consists of a central square and eight surrounding squares. The spins are represented by arrows pointing in various directions (up, down, left, right, and diagonally). The configurations are as follows:

- (a) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (b) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (c) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (d) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (e) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (f) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (g) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (h) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).
- (i) Central:  $\uparrow$ ; Surrounding:  $\downarrow$  (top),  $\downarrow$  (bottom),  $\leftarrow$  (left),  $\rightarrow$  (right),  $\nwarrow$  (top-left),  $\nearrow$  (top-right),  $\swarrow$  (bottom-left),  $\searrow$  (bottom-right).