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Assessing the usability of tile-based interfaces to visually navigate 3-D parameter domains

Daniel S. Lopes , Rafael K. dos Anjos , Joaquim A. Jorge

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HIGHLIGHTS

- A generic tile-based interface is proposed to navigate 3D parameter spaces.
- Users easily navigate along tiles arranged in a rhombille pattern.
- Usability study reveals similar performance results between tile-based, 1-D sliders and specialized widgets.
- Tile-based interfaces are suitable to navigate color and super-shape spaces.
- Rotation space navigation is more challenging via tile-based interface.

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