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## DESIGNING MEMORABLE 3D GEOVISUALIZATIONS FOR OLDER ADULTS

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Remembering routes is fundamentally important for everyday tasks. But what are the most memorable elements on a route? Is it the visual clues; the spatial structures, or both? The answers highly depend on the individual's memory capacity, and it is well-documented that memory declines over the lifespan ( Craik, 1977). That is, the age may affect what (and how much) one recalls (Park et al., 2002) in a navigation task.

Thus, for navigating more effectively as we age, we study the implications of visualization design on memory. Memorability of visualizations have been previously studied (e.g., Borkin et al., 2013), but not in the aging context. We can obtain visualization guidelines specifically focusing on what the older participants can remember, and thus optimize the visualizations for them. These visualizations can potentially be used for interventions for memory training in older people in a safe virtual environment (Wiener et al., 2012).

### References

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A full-paper developed from this abstract is published here:

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