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Jose Perea* (joperea@gmail.com) and **Gunnar Carlsson**. *Topology of Spaces of Micro-Images and Applications*.

One of the most celebrated success stories in topological data analysis, is perhaps that of the Klein bottle as a model space for relevant 3×3 patches from natural images. I will explore in this talk how the Klein bottle model can be extended to include other meaningful patches, and describe an application to texture discrimination. (Received September 15, 2011)