1084-54-283 **Ralph Kopperman*** (rdkcc@ccny.cuny.edu), Department of Mathematics, City College, New York, NY 10031, **Michael Bukatin** (bukatin@cs.brandeis.edu), Boston, MA , and **Steve Matthews** (steve.matthews@warwick.ac.uk), Department of Computer Science, University of Warwick, Coventry, UK, United Kingdom. *Finite approximation of topological spaces.*

While a topological space may have an infinite number of features (open sets), only a finite number can be seen a human or a computer program in finite time.

An ancient topology theorem says that each compact Hausdorff space is the subspace of closed points in an inverse limit of a system of finite T_0 spaces and continuous maps.

We discuss this result from a modern perspective and show how it handles the issues raised in our first paragraph. (Received September 03, 2012)