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**David E. Dobbs\***, Department of Mathematics, University of Tennessee, Knoxville, TN 37996-1320, and **Ronald Levy** and **Jay Shapiro**. *A universal survival ring of continuous functions which is not a universal lying-over ring, I.*

A (commutative unital nonzero) ring  $R$  is said to be a ULO- (resp., UQLO-; resp., US-) ring if each (unital) ring extension  $R \subseteq S$  satisfies the LO-property (resp., satisfies the QLO-property; resp., is a survival extension). It is easy to see that  $\dim(R) = 0 \Rightarrow \text{LO-ring} \Rightarrow [\text{UQLO-ring and US-ring}]$ . The purpose of these talks is to show that essentially none of the related converses hold in general. In Part I, we study the above classes of rings and some natural connections with total quotient rings, Property A, reduced rings, Noetherian rings and Hilbert rings. We also use the  $A + B$  construction to build relevant examples in any dimension greater than 1. Part I closes by noting that the above purpose would be settled if one could construct an infinite-dimensional US-ring which is not a ULO-ring. (Received January 16, 2011)