

Given the relation ρ and an equivalence relation θ , both on the same set of individuals, it is interesting to look for the largest equivalence θ' that is contained in ρ and is regular with respect to θ . The computation of θ' involves the left and right residuals, a concept that generalized group inverses to the algebra of relations. A polynomial-time procedure is presented and illustrated with examples. In particular, the regular interior gives meet in the lattice of regular equivalences: the regular meet of regular equivalences is the regular interior of their intersection. Finally, the concept of relative regular equivalence is defined and compared with regular equivalence.