

Q -anonymous social welfare relations on infinite utility streams

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Abstract

We examine whether Q -Anonymity, the axiom of impartiality stronger than Finite Anonymity, and Pigou-Dalton Equity or Hammon Equity, the well-known consequentialist equity axioms, are compatible in a strongly Paretian social welfare relation (SWR) on infinite utility streams. For each case of these two equity axioms, we provide the characterization of the equitable subclass of Q -anonymous and strongly Paretian SWRs: in the case of Pigou-Dalton Equity, all SWRs to which the extended generalized Lorenz SWR is a subrelation, and in the case of Hammond Equity, all SWRs to which the extended leximin SWR is a subrelation. We also provide a new axiomatization of the extended utilitarian SWR using an equity axiom that requires utility transfer among two generations to be socially indifferent.

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