Title   : A Formalization of Kant's Second Formulation of the
          Categorical Imperative
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Abstract: We present a formalization and computational
implementation of the second formulation of Kant's categorical
imperative. This ethical principle requires an agent to never treat
someone merely as a means but always also as an end. Here we
interpret this principle in terms of how persons are causally
affected by actions. Introducing Kantian causal agency models in
which moral patients, actions, goals, and causal influence are
represented. We show how to formalize several readings of Kant's
categorical imperative that correspond to Kant's concept of strict
and wide duties towards oneself and others. Stricter versions handle
cases where an action directly causally affects oneself or others,
whereas the wide version maximizes the number of persons being
treated as an end. We discuss limitations of our formalization by
pointing to one of Kant's cases that the machinery cannot handle in
a satisfying way.