

## Abstract

A computer simulation was carried out to investigate the effect of four attributes, Perceived Ability (PA), Resources Available (RA), Perceived Self Efficacy (PSE) and Social Orientation (SO) on the Tendency of Group Formation (GF) and the level of Contribution to Public Goods (CPG). The simulation assumed that (a1) people high in PA, RA and PSE were more likely to form groups and (a2) to contribute to public goods, and that (b1) cooperative people were more likely to form groups and (b2) to contribute to public goods than competitive people. Given each level of these attributes, the frequency for individuals to form groups, the GF and the CPG level of these individuals were investigated. In this simulation, the four settings, which were the population size (POP), the penalty factor for free-riding (PEN), the baseline factor (BLf) and the number of rounds of interaction (round) were manipulated to examine their effects on the total number of groups formed (NG).