

# $\mathcal{Q}$ -Anonymity and preference continuity

Kohei Kamaga  
Graduate School of Economics  
Waseda University

Takashi Kojima  
Graduate School of Economics  
Waseda University

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**Abstract** In a recent paper published in *Social Choice and Welfare* (27 (2006) 327-339), Banerjee characterized extensions of the Suppes-Sen grading principle and the Basu-Mitra utilitarian relation defined on infinite utility streams with the axiom of  $\mathcal{Q}$ -Anonymity and discussed the relative merits of the extended utilitarian relation. On the other hand, Asheim and Tungodden (*Economic Theory* 24: 221-230, 2004) used conditions of Preference Continuity to characterize leximin and utilitarianism. We characterize extensions of the Asheim-Tungodden leximin and utilitarian relations with  $\mathcal{Q}$ -Anonymity, compare the rankings by the extended overtaking criteria with those by the extended simplified criteria and discuss their relative merits.

*Keywords:*  $\mathcal{Q}$ -Anonymity; Preference continuity; Overtaking criterion; Leximin; Utilitarianism; Simplified criterion