Rašković, Miodrag D.; **Đorđević, Radosav S.**
Second-order probability logic. (English) Zbl 0829.03021
Math. Balk., New Ser. 6, No. 1, 105-108 (1992).

Summary: We introduce the second-order probability logic $L^2_{\mathcal{A}P\forall}$ which possesses the probability quantifiers $(P\vec{x} \geq r)$ on the individual variables and the ordinary quantifiers $(\forall X)$ and $(\exists X)$ on the set variables. The aim of the paper is to prove the completeness theorem for second-order probability models.

MSC:

03C80 Logic with extra quantifiers and operators
03B48 Probability and inductive logic

Keywords:

second-order probability logic; completeness theorem for second-order probability models