ON SOME DISTRIBUTIONS ARISING FROM CERTAIN GENERALIZED SAMPLING SCHEMES.

John Panaretos

University of Patras
Patras, Greece
and
University of Crete, Greece

Evdokia Xekalaki

Department of Mathematics
University of Crete
Iraklio, Crete, Greece

ABSTRACT

With the notion of success in a series of trials extended to refer to a run of like outcomes, several new distributions are obtained as the result of sampling from an urn without replacement or with additional replacements. In this context, the hypergeometric, negative hypergeometric, logarithmic series, generalized Waring, Polya and inverse Polya distributions are extended and their properties are studied.