BARBARA SZYSZKOWICZ, Carleton University, 1125 Colonel By Drive, Ottawa, ON K1S 5B6 Weighted Approximations of Partial Sums—an Overview

The asymptotics of partial sum processes in weighted supremum and L_p -metrics under the classical two moments condition will be discussed together with their parallel versions for self-normalized partial sums in the domain of attraction of the normal law. Applications to change-point analysis will be presented via recent results on weighted approximations for Studentized U-Statistics type processes.