SELF-NORMALIZED LARGE DEVIATIONS

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Let $\{X,X_n,\ n\geq 1\}$ be a sequence of independent and identically distributed random variables. The classical Cramer-Chernoff large deviation states that $\lim_{n\to\infty} n^{-1} \ln P((\sum_{j=1}^n X_j)/n\geq n) = \ln p(x)$ if and only if the moment generating function of X is finite in a right neighborhood of zero. This paper uses $n^{(p-1)/p} Y_{n,p} = n^{(p-1)/p} (\sum_{j=1}^n |X_j|^p)^{1/p} \ (p>1)$ as the normalizing constant to establish a self-normalized large deviation without any moment conditions. A self-normalized moderate deviation, that is, the asymptotic probability of $P(S_n/V_{n,p} \geq s_n)$ for $s_n = o(n^{(p-1)/p})$, is also found for any X in the domain of attraction of a normal or stable law. As a consequence, a precise constant in the self-normalized law of the iterated logarithm of Griffin and Kuelbs is obtained. Applications to the limit distribution of self-normalized sums, the asymptotic probability of the instalistic as well as to the Erdös-Renyi-Shepp law of large numbers are also discussed.

1. Introduction. Throughout this paper, let (Ω, Σ, P) denote a probability space, and let $\{X, X_n, n \geq 1\}$ be a sequence of independent and identically distributed (i.i.d.) nondegenerate real-valued random variables on the probability space. Put

$$S_n = \sum_{i=1}^n X_i$$
, $V_n^2 = \sum_{i=1}^n X_i^2$, $n = 1, 2, ...$

The classical Cramer-Chernoff large deviation [Chernoff (1952)] states that if

(A)
$$Ee^{t_0X} < \infty$$
 for some $t_0 > 0$,

then for every x > EX,

$$\lim_{n\to\infty} n^{-1} \ln P\left(\frac{S_n}{n} \ge x\right) = \ln \rho(x),$$

or equivalently,

(1.1)
$$\lim_{n\to\infty} P\left(\frac{S_n}{n} \ge x\right)^{1/n} = \rho(x).$$

where $\rho(x) = \inf_{t>0} e^{-tx} E e^{tX}$.

Roughly speaking, this type of large deviation shows that the convergence rate in the law of large numbers is exponential if the moment generating

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Chapter 3 Self Normalized Large Deviations

L Darling-Hammond

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through Chapter 3 Self Normalized Large Deviations

In some sort of inundated with displays and the cacophony of instantaneous conversation, the profound energy and psychological resonance of verbal artistry frequently diminish into obscurity, eclipsed by the continuous barrage of sound and distractions. However, situated within the musical pages of **Chapter 3 Self Normalized Large Deviations**, a charming function of fictional elegance that pulses with fresh feelings, lies an wonderful journey waiting to be embarked upon. Penned with a virtuoso wordsmith, this magical opus guides readers on a mental odyssey, softly revealing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is main styles, dissect its charming writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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