عنوان فارسی مقاله:

حالت های موثر در فیزیولوژی رفتاری و آزمایش های روانشناسی عصبی

عنوان انگلیسی مقاله:

Using pupil size and heart rate to infer affective states during behavioral neurophysiology and neuropsychology experiments

توجه!

این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
5. Conclusions

Autonomic outputs of the central nervous system represent an underutilized yet valuable category of behavior for neurophysiological studies in NHP. For the most part, standard equipment intended for recording autonomic signals in humans can be used or modified for recording signals in NHP, generally without disturbing single-unit recording apparatus. In fact, most commercial systems for neurophysiology provide time-synchronized analog inputs well suited for these signals. When using equipment designed for humans, collecting reliable autonomic measures from the NHP must take into account not only the potential impact of experimental design, but also the physical and physiological differences between NHP and humans, for example the hairy skin and faster HRs of NHP. The NHP data acquired with this equipment is generally noisier than human data. Depending upon signal quality, standard analytical software may not be sufficient to give reliable results. Careful attention must be paid to data quality at each acquisition and processing step. Some NHP studies have experimental design features quite divergent from human studies. It is important to recognize the potential impact of those differences on measures and potential results. We have offered a number of calibration, stimulus configuration, and signal processing techniques that we employ in our own work to assure useable data.