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Abstract
This study investigated the effects of view angle on the electromyographic responses of human neck and trunk muscles, on the human posture and on the rate of perceived exertions of visual fatigue and muscular fatigue. This study recruited 12 young healthy male university students to participate in this study. This study examined five levels of view angles, which were +40°、+20°、0°、-20°、-40°. The results demonstrated that view angle significantly affected the electromyographic responses of human neck and trunk muscles, the human posture and the rate of perceived exertions of visual fatigue and muscular fatigue. The electromyographic responses of sternocleidomastoid muscles, splenius capitis muscles and erector spinae muscles were the least for 0 degree of view angle condition. The eyeball gaze angle, trunk inclination and pelvic angle were the least for -20 degree of view angle condition. The rate of perceived exertions of visual fatigue and muscular fatigue were the least for 0 degree of view angle condition.
Advisory Committee Tzu-Hsien Lee. - advisor

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