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	U-healthcare 2019: Engineering in Circadian Rhythm and Ubiquitous Healthcare
	Nudge-Oriented Physiological Measurements Using Game Devices
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	<p>For realizing physiological measurements during daily living, the combined use of game devices and physiological monitors was attempted. As one of the examples of this combined usage, electrodes for electrocardiogram (ECG) were installed on a gamepad and ECG measurements obtained with two electrodes were amplified during game playing. Experimental results showed that ECG signals and the reference photoplethysmographic signals were synchronized, thus highlighting the effectiveness of this method. Using this method for performing physiological measurements, health-related parameters can be determined naturally during playing; therefore, this should be considered as a novel method in future daily health management systems.</p> <p>Part of this work was supported by JSPS KAKENHI Grant Numbers 15H02798 and18K19844. And part of this work was also supported by "Student Support Grant of MISUMI Corporation."</p>