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Driver Monitoring System (DMS) Driver Monitoring System

Outline

- Detecting heartbeat/breathing/body motion over your clothes. → Estimation fatigue/drowsiness/sudden illness etc... of the driver.
- Biometric measurement by SR Sensor-applied multi-channel data dissociating biometric data from traveling vibration noise with proprietary algorithm.
- SR sensor is thin, lightweight and flexible.
- Add-on for seat and Seats Built-in type is possible.
- **movie** <https://youtu.be/0yp88XALUp4>
- **press release** <https://www.sumitomoriko.co.jp/wordpress/wp-content/uploads/2021/03/n51910569.pdf>

Product



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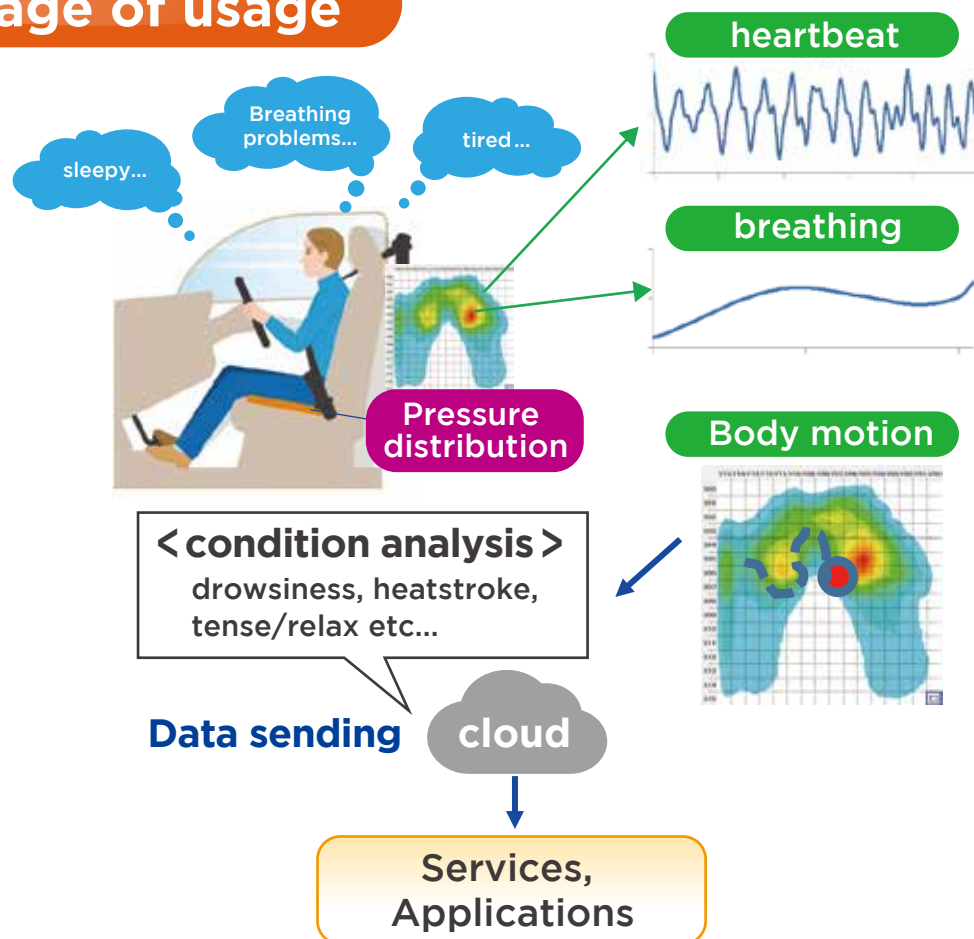


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Driver Monitoring System (DMS) Driver Monitoring System



Image of usage



Possible application

- Drowsiness and Fatigue detection system for professional driver (Truck, Bus, etc)
- For entertainment and relaxing services
- For big data collecting
- Detection system for Advanced Safety Vehicle Project #6 “hemodynamics instability”
- Detection system for EU regulation GSR Driver “Drowsiness and Attention Warning”

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Driver Monitoring System

(DMS) Driver Monitoring System

Future development

- We established Sumitomo Riko-AIST Advanced Devices of Polymer Materials Cooperative Research Laboratory in the National Institute of Advanced Industrial Science and Technology (AIST), one of the largest public research organizations in Japan. ('20/10)
- With the results of AIST's research and development, we will clarify the capability of the estimation of the information and the human state by our driver monitoring system.
- We will improve our sensing technologies in order to meet various needs of future mobility.



PRESS
RELEASE
2020 年 10 月 1 日

「住友理工-産総研 先進高分子デバイス連携研究室」を設立
～安全・安心・快適を目的とした先進高分子デバイスに関する研究を推進～

住友理工株式会社（本社：名古屋市中村区、代表取締役 執行役員社長：清水和志）と国立研究開発法人 産業技術総合研究所（つくば本部：茨城県つくば市、理事長：石村和彦、以下「産総研」）は共同で 10 月 1 日、産総研のつくばセンター内に「住友理工-産総研 先進高分子デバイス連携研究室」を設立しましたので、お知らせいたします。



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