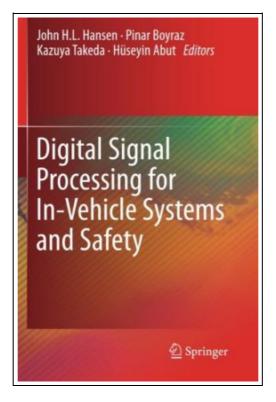
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Condition: New. Publisher/Verlag: Springer, Berlin | This edited collection features contributions from world-class experts in a number of fields and focuses on how smart in-vehicle systems can be integrated with human-machine interfaces to enhance driver awareness and help prevent road accidents. | Compiled from papers of the 4th Biennial Workshop on DSP (Digital Signal Processing) for In-Vehicle Systems and Safety this edited collection features world-class experts from diverse fields focusing on integrating smart in-vehicle systems with human factors to enhance safety in automobiles. Digital Signal Processing for In-Vehicle Systems and Safety presents new approaches on how to reduce driver inattention and prevent road accidents. The material addresses DSP technologies in adaptive automobiles, in-vehicle dialogue systems, human machine interfaces, video and audio processing, and in-vehicle speech systems. The volume also features recent advances in Smart-Car technology, coverage of autonomous vehicles that drive themselves, and information on multi-sensor fusion for driver ID and robust driver monitoring. Digital Signal Processing for In-Vehicle Systems and Safety is useful for engineering researchers, students, automotive manufacturers, government foundations and engineers working in the areas of control engineering, signal processing, audio-video processing, bio-mechanics, human factors and transportation engineering. | Part A: Driver Behavior and Monitoring Systems.- 1: Towards Multi-modal Driver's Stress Detection.- 2: Driver Emotion and Profiling from Speech.- 3: Driving Status Identification from Driving Behavior Signals.- 4: Multi-layer Modeling of Driving Behavior based on Hierarchical Mode Segmentation.- Part B: In-Vehicle Interactive/Speech Systems.- 5: Evaluation of In-Car Communication Systems.- 6: Wideband Hands-Free in Cars: New Challenges for System Design and Testing.- 7: A Novel Way to Start Speech Dialogs in Cars by Talk-and-Push (TAP).- 8: Cognitive Dialog Systems for Dynamic Environments: Progress and Challenges.- 9: In-Vehicle Speech and Noise Corpora.- 10: A Likelihood-Maximizing Framework for Enhanced In-Car Speech Recognition based on Speech Dialogue System Interaction.- 11: Feature Compensation...

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