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**Abstract:** The proceedings contain 154 papers. The topics discussed include: static and fatigue strength analysis of a hyperbaric oxygen cabin; moving target detection using inter-frame difference methods combined with texture features and lab color space; research on 3D variable design of corrugated box based on SolidWorks; technology research on the application of high safety anti-metal RFID tags in the asset management of power equipment; research on lane recognition algorithm based on deep learning; research on C-NCAP test and evaluation method based on Chinese characteristic data; detection of research front topic based on data of NSF artificial intelligence project; permutation invariant training based single-channel multi-talker speech recognition with music background; sun shadow localization problem based on genetic algorithm; and combined forecasting model of network security situation based on information fusion.

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