Cockpit Voice Analysis and Diagnostic

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Abstract:
The attributes of cockpit voices (sounds) recorded by Cockpit Voice Recorder (CVR) are key confirmations in examining mishap foundations for destroyed plane. To dissecting and diagnosing destroyed plane causes through cockpit voices in CVR, a few specialists are made as followings in this paper: Firstly, some ordinary foundation hints of cockpit voices, for example, wind shear sound, close earth sound admonition, take-off type of sound cautioning, alarm, etc, are gotten and ordered through tuning in and recognizing by adobe tryout sound programming in research facility. At that point, the attributes of these foundation sounds are removed by signal investigations techniques, for example, the Fourier Transform, Wavelet Transform, etc. Through these strategies, the extraordinary attributes are depurated, for example, recurrence esteem, phantom thickness, and recurrence line numbers. Finally, as the critical piece of the paper, restrictive standards and shortcoming trees techniques are applied to recognize what’s more, analyze these uncommon attributes for estimated or distinctive foundation hints of cockpit voices. What’s more, some accessible outcomes are acquired. Through all these above investigates, new dissecting and diagnosing approaches are advanced, which are appropriate for exact getting a handle on the reason for flight mishap and examinations and analyze flight mishap. All the investigates and determinations have a specific reference for examination and conclusion of flight mishaps, and ensure flight security.