



(54) **SOFTWARE-DEFINED SIGNAL DEVICE SYSTEMS**

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(57) **ABSTRACT**

Embodiments described herein can enable minimum processing performed at a signal device level, such that the majority of the non-domain-specific processing can be off-loaded to a processing device. For example, the processing device can receive signal data from a signal device, preprocess the signal data to obtain preprocessed signal data having a data format for domain-specific processing by software executed by at least one processing unit of a processing platform, and provide the preprocessed signal data for domain-specific processing by the software executed by the at least one processing unit.

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