Mixed signal approach for rapid prototyping of a compact smart pebble for sediment transport monitoring in river beds

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Abstract— Low-cost accelerometers and gyro ICs were used to develop a smart sediment particle to study the sediment transport in rivers. With strap-down MEMS, battery, a processing subsystem and memory, this self contained unit captures semi-processed data for durations up to 15 minutes. In a mixed-mode design, analog multiplier ICs with limited digital circuits transform the body frame data to a reference frame using Euler angles, with adequate accuracy despite cumulative errors. For 3D motion, up to nine sensor inputs from three orthogonal modules are coupled to a multiplexed analog processing module, and processed by a digital module for data conversion and storage. Despite the simplified mathematics used, experimental data from the proof-of-concept system provided adequate accuracy. Subsequent processing of the raw sensor data using an external PC program with smart algorithms allowed the comparison of accuracy of the mixed mode approach. The adopted mixed signal design approach helps the packaging requirements due to the specific nature of the problem with short recording durations.

I. INTRODUCTION

Applied research on MEMS is widely reported. Low cost MEMS, developed for automotive and consumer electronics, have been used in advanced engineering applications [1-3], including environmental and space technology. These publications show that modern accelerometers and gyro ICs are usable in strap-down inertial platforms for specialized applications, if the cumulative errors are managed with adequate accuracy. A potential application of such MEMS devices is in the development of a smart sediment particle for studies of sediment transport in rivers and elsewhere. The smart sediment particle would provide significant insight into the process of sediment entrainment [4], which would impact on diverse fields including river flooding.

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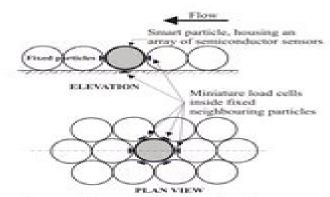


Figure 1: Test arrangement using the smart sediment particle

The granular material (sands and gravels) comprising the beds of rivers is typically in motion during periods of high river flow and stationary at other times. One of the most intriguing problems of this sediment transport process is the cause of the initial motion, i.e. the "entrainment" or pickup, of individual sediment grains. The smart sediment particle will be capable of recording its own motion in response to a range of aspects of its immediate surroundings, specifically the local water flows and the influence of the neighboring sediment particles. It will then be especially useful for elucidation of the entrainment process. Simultaneous measurement of the very complicated turbulent water flow will also be made.

Figure 1 depicts the test arrangement for use of the smart sediment particle in experiments designed to elucidate the sediment entrainment process. As shown, the smart particle will be positioned amongst a bod of similar (fixed) particles. Miniature load cells will be used to measure the inter-particle forces between the smart particle and its neighboring fixed

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