BASUMA – The Sixth Sense for Chronically Ill Patients

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Abstract
Continuous monitoring and analyzing of vital signs is the key for detecting at an early stage when a patient’s state of health changes to the worse, thereby preventing emergency cases, which are harmful to the patient and costly for the health care system. The BASUMA project is concerned with developing an energy-efficient and robust system-on-chip platform for wireless body sensors networks that enable health monitoring of chronically ill patients in their own homes. Initial application areas of BASUMA are: improving the treatment of chronic obstructive pulmonary disease patients and enhancing the ambulatory chemo therapy of women suffering from breast cancer.