

Smart Sensors: Main Technologies and Applications

Magda Tsintsadze^a
Maia Archuadze^b

^ae-mail: magda.tsintsadze@tsu.ge

^be-mail: maia.archuadze@tsu.ge

^aComputer Sciences, Technical Informatics,
TSU, Tbilisi, 0186, University str. #13

^bComputer Sciences, Technical Informatics,
TSU, Tbilisi, 0186, University str. #13

Abstract : In the modern world sensors and sensor networks are playing the key role as they are representing the main tool for environmental challenge solving. These technologies are successfully implemented in processes of air and water pollutions, global warming and also in anti-terroristic planning and application.

There are sensors of different types: electronic, biosensors, chemical sensors. All of them are measuring several physical properties. In the article we will consider sensors that are converting detected signals into the electric signal and are stored in appropriate databases, thus they might be considered as bridging interface between physical and electronic worlds, also the examples of main fields of application will be provided.