Technology Innovations and Developments for CBRNE Applications

Description: This issue of Homeland Security TOE profiles technology innovations and developments for homeland security applications in the CBRNE space, such as a novel nanosensor technology for threat detection, a multithread detection system using wireless technology, portable radiation detectors for threat identification, carbon nanotube membrane-based threat detection, a software platform to detect CBRNE threats, a wristwatch to monitor environment radiation, real-time harmful gas detection for the oil and gas industry, and nuclear threat detection software for mobile radiological search systems.

The Homeland Security TechVision Opportunity Engine (TOE) captures global innovations and developments related to homeland security on a monthly basis. Technologies enabling security segments, including incident management, border security, CBRNE, disaster management, cybersecurity, first responders, critical infrastructure protection, maritime security, food security, personal protective equipment, and airport security are captured in this TOE.

The need for low power, smaller, lighter sensors with enhanced performance attributes and minimal false alarms is driving innovations in the sensors space. The Sensors and Control cluster covers innovations pertaining to technologies such as wireless sensors and networks, energy harvesting, haptics and touch, MEMS and nanosensors, terahertz, ubiquitous/smart sensors, CBRNE, quantified-self, sensor fusion, M2M communications, and drones.

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   - Novel Nanosensor Technology for Threat Detection
   - Multithread Detection System Using Wireless Technology
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   - Carbon Nanotube Membrane-based Threat Detection
   - Software Platform to Detect CBRNE Threats
   - Wristwatch to Monitor Environment Radiation
   - Real-time Harmful Gas Detection for the Oil and Gas Industry
   - Nuclear Threat Detection Software for Mobile Radiological Search Systems

2. Strategic Perspectives
   - CBRNE Technology Strategic Perspectives

3. Key Patents and Contacts
   - Key Patents - Cloud-based Model to Identify Threats
   - Industry Contacts

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