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1834 IEEE SENSORS JOURNAL, VOL. 10, NO. 12, DECEMBER 2010 In the past, there have been other reviews of this field, par-ticularly papers published by Joo et al. [11] and earlier by Hi-erlemann et al. [13]; however, these reviews focus mainly on microfabrication techniques and the challenges for the integra-

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IEEE SENSORS JOURNAL, VOL. 10, NO. 2, FEBRUARY 2010 331 ...

IEEE SENSORS JOURNAL, VOL. 10, NO. 3, MARCH 2010 375 Scattering (SERS) substrates useful for the detection of chem-ical and biological molecules; integrated nanostructure-semi-conductormolecularcomplexesastoolsforTHzspectralstudies of DNA; new sensor signal processing method that improves selectivity, sensitivity and processing speed in systems using

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IEEE SENSORS JOURNAL, VOL. 10, NO. 6, JUNE 2010 1075 Active Temperature Programming for Metal-Oxide Chemoresistors Rakesh Gosangi and Ricardo Gutierrez-Osuna, Senior Member, IEEE Abstract—Modulatingtheoperatingtemperatureofmetal-oxide (MOX) chemical sensors gives rise to gas-specific signatures that provide a wealth of analytical information.

IEEE SENSORS JOURNAL, VOL. 10, NO. 6, JUNE 2010 1075 ...

1066 IEEE SENSORS JOURNAL, VOL. 10, NO. 6, JUNE 2010 A High-Resolution Silicon-on-Glass Axis Gyroscope Operating at Atmospheric Pressure Haitao Ding, Xuesong Liu, Longtao Lin, Xiaozhu Chi, Jian Cui, Michael Kraft, Zhenchuan Yang, and Guizhen Yan Abstract—This paper describes a high-resolution silicon-on-

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1350 IEEE SENSORS JOURNAL, VOL. 10, NO. 8, AUGUST 2010 sensors are susceptible to drift errors. Small errors perturbing the gyroscope signals can cause growing angular errors in the tracked orientation. Other than the errors perturbing the acceler-ationsignals,theseangularerrorscanresultinerroneousprojec-tion of gravity onto the horizontal axes in GCS.

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1044 IEEE SENSORS JOURNAL, VOL. 10, NO. 6, JUNE 2010 Fig. 3. A single sensor of the global 6 4 FBAR-CMOS array architecture displays the Pierce oscillator topology. The FBAR equivalent circuit model is shown in the grey box, with Cm, Rm, and Lm corresponding to the motional components and Co, Rx corresponding to the intrinsic electrical properties of

1042 IEEE SENSORS JOURNAL, VOL. 10, NO. 6, JUNE 2010 FBAR ...

Modern silicon-based detectors for high-energy physics operate in an experimental environment with sub-zero temperatures. At those temperatures, even low traces of humidity will produce vapor condensation with damages to the detectors. Monitoring relative humidity is then a requirement for efficient detector operation. However, the performance of any relative humidity sensor operating in high ...

Humidity Sensors for High Energy Physics Applications: A ...

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4056 IEEE SENSORS JOURNAL, VOL. 13, NO. 10, OCTOBER 2013 Design and Characterization of a Soft Multi-Axis Force Sensor Using Embedded Microfluidic Channels Daniel M. Vogt,Member, IEEE, Yong-Lae Park,Member, IEEE, and Robert J. Wood,Member, IEEE

4056 IEEE SENSORS JOURNAL, VOL. 13, NO. 10, OCTOBER 2013 ...

3776 IEEE SENSORS JOURNAL, VOL. 13, NO. 10, OCTOBER 2013 smartly selects the location sensing methods between WiFi and GPS, and reduces the sampling rate by utilizing the information from acceleration sensor and orientation sensor, two of the most common sensors found on smartphones today. We have implemented a prototype on the Google Nexus S

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Fingerprint variation detection by unlabeled data for indoor localization Jaehyun Yoo, S. Park Pervasive and Mobile Computing (PMC), Elsevier, Sep. 67, 101219, 2020.

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3366 IEEE SENSORS JOURNAL, VOL. 14, NO. 10, OCTOBER 2014 Fig. 2. Bistatic scatter-radio topology; carrier emitter placed in a different location from the reader. det and dtr denote the emitter-to-tag and tag-to-reader distance, respectively. Classic battery-less RFID systems utilize monostatic archi-

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1186 IEEE SENSORS JOURNAL, VOL. 10, NO. 7, JULY 2010 the resonant wavelength shift. It has been reported that the similar 2-D PC microcavity resonator can detect protein down to 2.5 fg, a gold nanoparticle of 10 nm in diameter, and ion concentration absorbed in ion-selective polymer coated on the resonator.

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