
Energy Efficient Short Range Ultra Wideband Radio Transceivers

exploiting short-range cooperation for energy efficient ... - the more short-term the cache is, the more relevant and accurate the information will be for the mn. a. selecting an appropriate short-range cooperation protocol since the cooperation mechanism is employed for improving the energy efficiency of vho operations, allowing the mns to keep their short-range interfaces continuously active, constantly **efficient calculation of short-range coulomb energies** - abstract: an efficient algorithm for the calculation of short-range coulomb energies is examined. the algorithm uses a boxing scheme and a prescreening for negligible integrals to evaluate the short-range coulomb energy via computational work that scales only linearly with the size of the system. **an energy-efficient triple-channel uwb-based cognitive radio** - an energy-efficient triple-channel uwb-based cognitive radio . by . nam-seog kim an energy-efficient triple-channel uwb-based cognitive radio by ... devices increases in 3.1ghz to 10.6ghz ism band to achieve energy efficient 1gb/s short-range wireless communication. a dual-resolution analog wavelet-based spectrum performs **energy efficient ultra-wideband radio transceiver ...** - energy efficient short-range radios have become an active research area with prolifer-ation of portable electronics. a critical specification for radio efficiency is energy/bit. the fcc has allocated the 3.1-10.6 ghz band for radios using ultra-wideband (uwb) signals. in this research, i exploit uwb signaling to develop energy efficient hardware **energy efficient computing in high performance systems - ibm** - june -2013 fifth workshop on energy-efficient design -weed 2013 need good name 1 energy efficient computing in high performance systems efraim rotem intel corporation, technion . israel ran ginotar technion, israel avi mendelson technion, ... dynamic range of power increases (10x on recent products) ... **a generic wake-up radio based mac protocol for energy ...** - a generic wake-up radio based mac protocol for energy efficient short range communication heikki karvonen, juha petaj" "aj arvi, jari iinatti, matti h" "am "al "ainen **cvleach: coverage based energy efficient leach algorithm ...** - nodes dominates the energy spent for the computation [10]. multi-hop short range communication between wireless sensors nodes is energy efficient compared to single-hop long range communication. hierarchical clustering is one of the possible solutions to save energy of wireless sensor nodes. low-energy **unlocking the value of an energy efficient home** - a wide range of energy efficiency stakeholders including: state energy offices, non-profit organizations, contractors, ... of an energy efficient home about energy efficiency certifications and features. 1. executive summary. ... unlocking the value of an energy efficient home • • • **a study of efficient power consumption wireless ...** - designed for short-range connectivity with limited qos and security requirements typically applicable for a home or indoor environment. 3.1. short range connectivity technologies wi-fi is a great candidate to ensure connectivity in iot applications due to its tremendous growth over the past years, in spite of the much higher power consumption. **determining electric motor load and efficiency** - determining electric motor load and efficiency ... to compare the operating costs of an existing standard motor with an appropriately-sized energy-efficient replacement, you need to determine operating hours, efficiency improvement values, and ... for short periods of time without incurring significant damage. although many motors have service ... **energy efficient engine - nasa** - an energy efficient engine (e3) program has been established by nasa to develop a technology for improving the energy efficiency of future commercial transport aircraft. as a part of this program, general electric is designir_g and testing a new turbofan engine. this report describes the design of the control and fuel system for the general ...

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