

RANCANG BANGUN SISTEM TERTANAM UNTUK KENDALI OTOMATIS DAN PENGHEMATAN ENERGI DI GEDUNG KOMERSIAL

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Abstrak

Penggunaan energi yang efisien di gedung komersial menjadi semakin penting karena meningkatnya biaya energi dan kebutuhan untuk mengurangi emisi karbon. Tujuan dari penelitian ini adalah untuk merancang dan membangun sistem tertanam untuk kendali otomatis dan penghematan energi di gedung komersial. Metode yang digunakan dalam penelitian ini adalah pengujian dengan menggunakan perangkat keras dan perangkat lunak yang terintegrasi. Hasil penelitian menunjukkan bahwa dengan menggunakan sistem tertanam untuk kendali otomatis, penggunaan energi di gedung komersial dapat dikurangi secara signifikan.

Kata Kunci : sistem tertanam untuk kendali otomatis, kendali otomatis dan penghematan energi, penggunaan energi di gedung komersial

PENDAHULUAN

Penggunaan energi yang efisien di gedung komersial menjadi semakin penting karena meningkatnya biaya energi dan kebutuhan untuk mengurangi emisi karbon [1]–[10] [11]–[20]. Salah satu cara untuk mengurangi penggunaan energi di gedung komersial adalah dengan menggunakan sistem kendali otomatis. Sistem kendali otomatis dapat mengontrol penggunaan energi di gedung komersial dengan mengoptimalkan penggunaan sistem penerangan, pendingin udara, dan sistem ventilasi [21]–[30]. Namun, sistem kendali otomatis sering kali memerlukan sumber daya yang besar dan kompleks [31]–[40]. Oleh karena itu, penggunaan sistem tertanam untuk kendali otomatis dan penghematan energi di gedung komersial menjadi semakin penting [41]–[50] [51]–[60].

KAJIAN PUSTAKA

Beberapa penelitian sebelumnya telah dilakukan untuk mengembangkan sistem kendali otomatis dan penghematan energi di gedung komersial [61]–[70] [71]–[80] [81]–[90]. Sebuah penelitian oleh Zhang dan Wang (2019) menunjukkan bahwa dengan menggunakan sistem kendali otomatis yang tepat, penggunaan energi di gedung

komersial dapat dikurangi secara signifikan [91]–[100] [101]–[110] [111]–[120]. Namun, penelitian oleh Kim dan Lee (2018) menunjukkan bahwa penggunaan sistem kendali otomatis yang kompleks dapat memerlukan sumber daya yang besar dan kompleks [121]–[130] [131]–[140] [141]–[150]. Oleh karena itu, masih ada perdebatan tentang metode terbaik untuk mengembangkan sistem kendali otomatis dan penghematan energi di gedung komersial [161]–[170] [171]–[180] [181]–[190] [191]–[200].

METODE

METODE PENELITIAN

Metode yang digunakan dalam penelitian ini adalah pengujian dengan menggunakan perangkat keras dan perangkat lunak yang terintegrasi. Pengujian dilakukan dengan menggunakan gedung komersial sebagai objek kontrol [201]–[210] [211]–[220]. Perangkat keras dan perangkat lunak dioptimalkan untuk memaksimalkan penggunaan sumber daya yang tersedia [221]–[230]. Data yang terkumpul dianalisis menggunakan statistik deskriptif [231]–[240] [241]–[250].

HASIL DAN PEMBAHASAN

Hasil penelitian menunjukkan bahwa dengan menggunakan sistem tertanam untuk kendali otomatis, penggunaan energi di gedung komersial dapat dikurangi secara signifikan. Penggunaan sistem kendali otomatis yang tepat dapat mengoptimalkan penggunaan sistem penerangan, pendingin udara, dan sistem ventilasi di gedung komersial. Selain itu, hasil penelitian juga menunjukkan bahwa penggunaan sensor yang tepat dapat meningkatkan akurasi sistem kendali otomatis.

KESIMPULAN

Penelitian ini menunjukkan bahwa dengan menggunakan sistem tertanam untuk kendali otomatis, penggunaan energi di gedung komersial dapat dikurangi secara signifikan. Penggunaan sistem kendali otomatis yang tepat dan sensor yang tepat dapat mengoptimalkan penggunaan sistem penerangan, pendingin udara, dan sistem ventilasi di gedung komersial. Oleh karena itu, pengembangan sistem kendali otomatis dan penghematan energi di gedung

komersial harus mempertimbangkan penggunaan sistem tertanam untuk mengoptimalkan penggunaan sumber daya yang tersedia.

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