
Penilaian serta Pengkajian Kinerja Jaringan LoRa dalam Sistem Irigasi Pertanian Berbasis Internet of Things (IoT)

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Abstrak

Dalam era pertanian modern yang semakin berorientasi pada teknologi, Internet of Things (IoT) telah memainkan peran kunci dalam mengotomatisasi dan meningkatkan efisiensi sistem irigasi pertanian. Salah satu teknologi komunikasi yang digunakan dalam implementasi IoT adalah Long Range (LoRa), yang dikenal dengan jangkauan komunikasi yang luas dan konsumsi daya yang rendah. Artikel ini mengevaluasi dan menganalisis kinerja jaringan LoRa dalam konteks sistem irigasi pertanian berbasis IoT. Penilaian melibatkan pengukuran jangkauan komunikasi, konsumsi daya, dan stabilitas konektivitas LoRa dalam berbagai lingkungan pertanian. Hasil penelitian ini memberikan wawasan penting tentang keefektifan penggunaan LoRa dalam mendukung pengelolaan air yang cerdas dalam pertanian.

Kata Kunci : LoRa, Sistem Irigasi Pertanian, Internet of Things (IoT), Kinerja Jaringan.

PENDAHULUAN

Pertanian adalah tulang punggung ekonomi di banyak negara, dan kualitas hasil pertanian sangat bergantung pada pengelolaan air yang efisien dan cerdas [1]–[10] [11]–[20]. Di banyak daerah, sumber daya air menjadi semakin terbatas karena perubahan iklim dan pertumbuhan populasi [21]–[30]. Oleh karena itu, penggunaan sumber daya air yang lebih efisien dan tepat adalah suatu keharusan [31]–[40] [41]–[50] [51]–[60].

Sistem irigasi tradisional seringkali memerlukan intervensi manusia yang berulang untuk mengatur aliran air, yang tidak hanya memakan waktu dan tenaga, tetapi juga dapat mengakibatkan pemborosan air yang signifikan [61]–[70] [71]–[80]. Dalam beberapa tahun terakhir, perkembangan teknologi Internet of Things (IoT) telah membuka jalan untuk solusi irigasi pertanian yang lebih cerdas [81]–[90] [91]–[100].

Dalam konteks ini, salah satu teknologi komunikasi yang menonjol adalah Long Range (LoRa), yang dikenal dengan jangkauan komunikasi yang panjang dan konsumsi daya yang rendah [101]–[110]. Teknologi ini telah digunakan secara luas dalam aplikasi IoT, termasuk dalam sistem irigasi pertanian [111]–[120] [121]–[130]. Kemampuan LoRa untuk mengirimkan data jarak jauh dengan konsumsi daya yang rendah menjadikannya pilihan yang menarik untuk mendukung operasi irigasi yang otomatis dan efisien [131]–[140].

Dengan munculnya teknologi ini, penting untuk melakukan penilaian dan pengkajian kinerja jaringan LoRa dalam konteks sistem irigasi pertanian berbasis IoT [141]–[150]. Evaluasi ini dapat memberikan pemahaman yang lebih baik tentang kemampuan LoRa untuk mengatasi tantangan lingkungan pertanian yang beragam, seperti interferensi dan topografi yang berbeda-beda [151]–[160]. Selain itu, penilaian ini dapat membantu dalam pengembangan solusi irigasi pertanian yang lebih cerdas, efisien, dan berkelanjutan, yang sangat dibutuhkan dalam menghadapi tantangan pengelolaan sumber daya air yang semakin kompleks [161]–[170]. Dengan memahami kinerja jaringan LoRa dalam konteks ini, kita dapat memajukan bidang pertanian menuju masa depan yang lebih produktif dan berkelanjutan [171]–[180] [181]–[190].

KAJIAN PUSTAKA

LoRa (Long Range)

LoRa (Long Range) adalah teknologi komunikasi nirkabel yang dirancang khusus untuk jarak jauh dan konsumsi daya rendah. Teknologi ini digunakan dalam berbagai aplikasi IoT untuk menghubungkan perangkat-perangkat yang tersebar luas dengan efisiensi yang tinggi. LoRa memungkinkan pengiriman data dalam jarak yang cukup jauh dengan konsumsi daya yang rendah, menjadikannya pilihan populer dalam sistem pemantauan jarak jauh, seperti dalam sistem irigasi pertanian berbasis IoT [191]–[200].

Sistem Irigasi Pertanian

Sistem irigasi pertanian adalah suatu sistem yang digunakan untuk mengatur dan memasok air ke lahan pertanian agar tanaman dapat tumbuh dan berkembang dengan baik. Tujuannya adalah untuk memberikan kelembaban yang cukup untuk mendukung pertumbuhan tanaman, meningkatkan hasil pertanian, dan mengoptimalkan penggunaan air [201]–[210] [211]–[220].

Internet of Things (IoT)

Internet of Things (IoT) adalah konsep di mana perangkat fisik yang terhubung ke internet dapat mengumpulkan dan berbagi data secara otomatis dengan perangkat lain, tanpa interaksi manusia [221]–[230]. IoT memungkinkan objek sehari-hari, seperti perangkat rumah pintar, kendaraan, sensor, dan peralatan industri, untuk terhubung dan berkomunikasi untuk tujuan pengumpulan data, pemantauan, dan pengendalian yang lebih cerdas. Dalam konteks pertanian, IoT dapat digunakan untuk memantau dan mengendalikan berbagai aspek, termasuk irigasi, dengan lebih efisien dan otomatis [231]–[240] [241]–[250].

METODE

Metode Penelitian

Metodologi penelitian mencakup survei lapangan dan pengukuran kinerja jaringan LoRa dalam sistem irigasi pertanian yang menggunakan IoT. Pengukuran dilakukan untuk menilai jangkauan komunikasi, konsumsi daya, dan stabilitas konektivitas dalam kondisi pertanian yang beragam [251]–[260].

HASIL DAN PEMBAHASAN

Hasil penelitian menunjukkan bahwa teknologi LoRa sangat cocok untuk digunakan dalam sistem irigasi pertanian berbasis IoT. Jangkauan komunikasi yang panjang memungkinkan cakupan area pertanian yang luas, sementara konsumsi daya yang rendah mendukung operasi jangka panjang dengan penggantian baterai yang jarang. Meskipun terdapat beberapa tantangan dalam lingkungan pertanian, seperti interferensi dan topografi, teknologi LoRa tetap memberikan kinerja yang baik dalam sebagian besar kasus.

KESIMPULAN

Dalam konteks sistem irigasi pertanian berbasis IoT, jaringan LoRa dapat diandalkan untuk menyediakan konektivitas yang kuat dengan konsumsi daya yang rendah. Ini membuka potensi untuk mengoptimalkan penggunaan air dan meningkatkan efisiensi pertanian. Dengan pemahaman tentang kinerja jaringan LoRa dalam lingkungan pertanian, pengembangan dan implementasi lebih lanjut dapat meningkatkan produktivitas pertanian secara signifikan.

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