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Tashkent International University of Education
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PROCEEDINGS

of the MMIT'25 International Conference

TA'LIMNING ZAMONAVIY USULLARI VA
INNOVATSION TEXNOLOGIYALAR

MODERN METHODS AND INNOVATION
TECHNOLOGIES IN EDUCATION

СОВРЕМЕННЫЕ МЕТОДЫ И
ИННОВАЦИОННЫЕ ТЕХНОЛОГИИ
В ОБРАЗОВАНИИ

29 May 2025, Tashkent, Uzbekistan

MAQOLALAR TO'PLAMI
СБОРНИК СТАТЕЙ



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Modern methods and innovation technologies in education

**Современные методы и инновационные технологии в
образовании**

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BELGILANGAN HUDUDDA RFID TEGLARINING KOORDINATARINI ANIQLASH USULLARI TAHLILI

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Annotatsiya. Mazkur tezisda RFID (Radio Frequency Identification) texnologiyalarining lokalizatsiya sohasidagi qo'llanilishi, ayniqsa yopiq hududlarda obyektlarni kuzatish va ularning koordinatlarini aniqlashdagi o'rni yoritilgan. Real muhitdagi misollar orqali RFID texnologiyasining sog'liqni saqlash, logistika va xavfsizlik sohalarida qo'llanilishi ko'rsatilib, ushbu usulning iqtisodiy va texnik jihatdan maqbulligi xulosa qilingan.

Kalit so'zlar: RFID-texnologiyalari, RFID-teglar, obyektlarni qayd qilish, matematik model, algoritim.

ANALYSIS OF METHODS FOR DETERMINING THE COORDINATES OF RFID TAGS IN THE DESIGNATED AREA

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Abstract. This thesis highlights the application of RFID (Radio Frequency Identification) technologies in the field of localization, especially in observing objects in enclosed spaces and determining their coordinates. Using real-world examples, the application of RFID technology in healthcare, logistics, and security is shown, and the economic and technical feasibility of this method is concluded.

Keywords: RFID technologies, RFID tags, object registration, mathematical model, algorithm.

Kirish

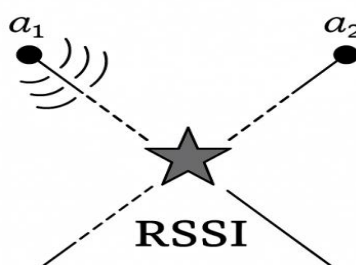
Hozirgi kunda IoT (Internet of Things) texnologiyalarining keng tarqalishi RFID tizimlarining ahamiyatini keskin oshirdi. RFID texnologiyasi orqali harakatlanuvchi yoki statsionar obyektlarni kuzatish, identifikatsiyalash va ularning aniq joylashuvini aniqlaydi. Ayniqsa yopiq binolarda GPS signali yetarli bo'lmaganda RFID asosidagi lokal joylashuv tizimlari muhim rol o'ynaydi. RFID tegli obyektlarning koordinatlarini aniqlashda bir nechta usullar mavjud bo'lib, har birining o'ziga xos afzallik va kamchiliklari mavjud.

RFID tizimi uchta asosiy komponentdan iborat: RFID tegi, RFID reader va ma'lumotlarni qayta ishlovchi dasturiy ta'minot. RFID tegi harakatlanuvchi obyektga biriktiriladi va u o'ziga tegishli ma'lumotlarni saqlaydi. RFID reader esa tegdan signal qabul qiladi va uni markaziy tizimga uzatadi, bu ma'lumotlar dasturiy ta'minot orqali qayta ishlanib, obyektning holati yoki joylashuvini aniqlaydi.

Zamonaviy axborot tizimlarida, ayniqsa sanoat, logistika, sog'liqni saqlash va xavfsizlik sohalarida real vaqtli joylashuv ma'lumotlari katta ahamiyatga ega. Masalan, omborxonalarda tovarlarni aniqlash, kasalxonada tibbiy asboblarning aniq joyini bilish yoki maktabda o'quvchilarning joylashuvini kuzatish uchun lokalizatsiya tizimlari muhim rol o'ynaydi. Buga namunasi sifatida [1] tadqiqot ishida qaralgan RFID texnologiyasi orqali hayvonlarni identifikatsiya qilish va ma'lumotlarni boshqarish masalasini keltirish mumkin. Amaliyotga ham kirgan bu ilmiy ish eng avolla qoramol fermer xojaligida ishka tushkan. Bu yerda qoramollarning joylashuvi aniq kuzatib borilgan, ularning yoqolib ketishi oldi olingan, ularning harakatlari va odatlari o'rganilgan. Aynan shunday vaziyatlarda RFID texnologiyasiga asoslangan lokalizatsiya tizimlari qo'llaniladi.

Natijalar va muhokama

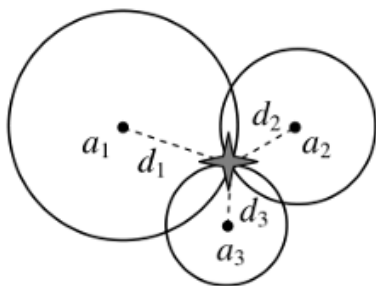
Eng avvalo RFIDda signallar orqali koordinatasini aniqlovchi RSSI usuli haqida malumot berip o'tsak. **RSSI** (Signal kuchi (RSS) asosida masofani baholovchi usul) - obyekt va antenna (reader) orasidagi signal kuchi asosida taxminiy masofani aniqlash orqali obyekt koordinatalarini hisoblash usuli. Bu usulda RFID tegi reader tomonidan yuborilgan signal kuchini o'lchaydi va bu kuch qiymatiga qarab, teg va reader orasidagi masofa taxmin qilinadi. Masofa va kuch orasidagi bog'liqlik radio signal tarqalish modeli orqali ifodalanadi. Har bir antenna o'z atrofidagi qamrov radiusini signal kuchi asosida belgilaydi va ushbu radiuslar kesishgan hududa teg joylashuvi sifatida qabul qilinadi. Rasmda yulduzcha bilan belgilangan nuqta — tegning taxminiy joylashuvi bo'lib, a_1 , a_2 readerlardan tegga signal kuchiga qarab aniqlangan masofalar mos ravishda d_1 , d_2 bilan belgilanadi. Masofani aniqlashda RSSI modeli (Path Loss Model) yoki boshqa empirik formulalardan foydalaniladi. Ushbu usulda signalga ta'sir qiluvchi omillar – devorlar, to'siqlar, elektromagnit shovqinlar aniqlikka salbiy ta'sir qiladi. RSSI texnologiyasi RFID, Wi-Fi, Bluetooth Low Energy (BLE) va ZigBee kabi kam quvvatli simsiz tizimlarda keng qo'llaniladi. Ayniqsa, ichki makonlarda (indoor) joylashuvni aniqlash uchun oddiy va arzon yechim hisoblanadi.



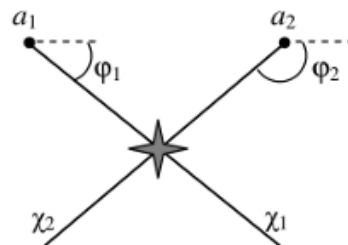
Obyekting koordinatasini aniqlashta teggacha bo'lgan masofani aniqlash ushuncha turli fizik ko'rsatkichlardan foydalaniladi va lokalizatsiyani aniqlashta bir neshta usullari mavjud, ular:

Triangulyatsiya usuli.

Trilateratsiya usuli.



a) Trilateratsiya



b) Triangulyatsiya

Trilateratsiya - obyekt va uchta reader orasidagi masofa asosida koordinatalar aniqlanadi. Ushbu usul GPS tizimlarida ham keng qo'llaniladi. RFID tizimida esa signalning kechikish vaqti yoki kuchiga asoslanadi. Doira markazlari antenna joylashgan nuqtalar, radiuslar qamrov masofalari bilan belgilanib, teg joylashuvi doiralarning kesishish nuqtasi sifatida aniqlanadi. Rasmda teg joylashuvi yulduzcha, a_1 , a_2 , a_3 antenna markazlaridan teggacha masofalar mos ravishda d_1 , d_2 , d_3 bilan belgilangan. Masofalarni aniqlashda RSS, TOA, POA yoki IR o'lchovi foydalaniladi. GPS, RFID, Wi-Fi, UWB larda keng qo'llaniladi.

Triangulyatsiya - Bu usulda obyektning joylashuvi uchta yoki undan ortiq readerlar tomonidan o'lchangan burchaklar asosida aniqlanadi. Antennalarning joylashuvi va tegdan kelayotgan signal yo'nalishlari hisobga olinadi va bu signallarning kesishish nuqtasi sifatida aniqlanadi. 2D lokalizatsiya uchun kamida ikkita antenna zarur. Triangulyatsiya usulida AOA qo'llaniladi. Kamera, yo'nalishli antennalarda keng qo'llaniladi.

Xulosa

Belgilangan hududda RFID tegi bo'lgan obyektlarning koordinatalarini aniqlash uchun qo'llaniladigan usullar – trilateratsiya va triangulyatsiya – har xil texnik asosga ega bo'lsa-da, barchasi muayyan vazifalarda foydali bo'lishi mumkin. Bugungi kunda texnologik qurilmalar narxi, tizimni joriy qilish murakkabligi va aniqlik darajasi kabi omillarni hisobga olgan holda, ko'pchilik hollarda RSSI usuli amaliy jihatdan eng maqbul tanlov bo'lib bormoqda. Ushbu usul oddiy qurilmalar bilan ishlaydi, xarajati nisbatan past va tizimni loyihalashda murakkab texnik yechimlarni talab qilmaydi. Ayniqsa, bino ichidagi obyektlarni aniqlashda – masalan, omborxona, ofis yoki xavfsizlik tizimlarida – RSSI keng qo'llanilmoqda. Xulosa qilib aytganda, aniqlik, xarajat va amaliyot o'rtasidagi muvozanat nuqtai nazaridan qaraganda, RSSI asosidagi yondashuv hozirgi kunda dolzarb va samarali echim sifatida ajralib turadi. Shu sababli, real loyihalarda yoki ilmiy tadqiqotlarda aynan shu usulni tanlash ratsional yechim bo'lishi mumkin.

Adabiyotlar

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An abstract graphic featuring a complex network of interconnected nodes and lines, resembling a molecular structure or a digital network, set against a dark blue background. The nodes are represented by circles of varying sizes, and the lines are thin, light blue, creating a web-like pattern that fills the upper two-thirds of the page.

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