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Vol. 1 No. 1 (2023) · “Axborot oqimlari va intellektual tizimlarning ijtimoiy, iqtisodiy va texnik-texnologik tarmoqlardagi o‘rni” mavzus...

materiallar to'plami

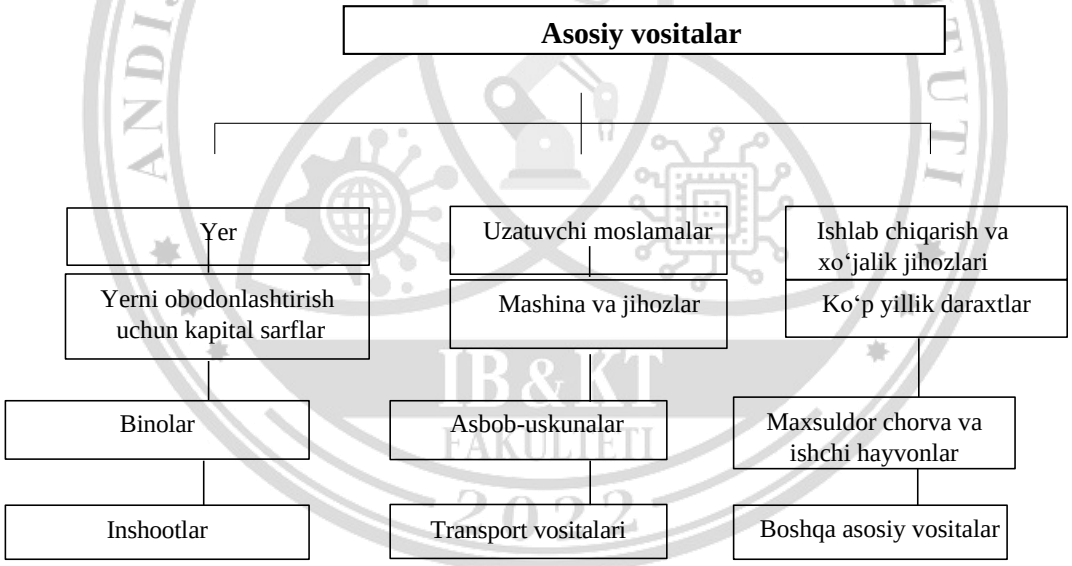
Korxona va tashkilotlarda axborot va texnologiyalardan foydalangan holda asosiy vositalardan samarali foydalanish yo‘llari

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Annotatsiya. Ushbu maqolada axborot texnologiyalari integratsiyasi orqali korxona va tashkilotlarda asosiy vositalardan samarali foydalanish yo‘llari yoritilgan. Axborot texnologiyalardan foydalanish orqali korxona va tashkilotlar asosiy vositalardan foydalanishni optimallashtirishi va raqobatbardoshligini saqlab qolishi mumkin.

Kalit so‘zlar: asosiy vositalar, axborot texnologiyalari, jarayonlarni avtomatlashtirish, raqamli transformatsiya, xarajatlarni optimallashtirish, jarayonlarni soddalashtirish.

Asosiy vositalar – ishlab chiqarish jarayonida uzoq vaqt xizmat qiladigan, o‘z natural shaklini o‘zgartirmagan holda ishlab chiqarish jarayonida bir necha bor qatnashadigan, o‘zining qiymatini mahsulot tannarxiga asta-sekin o‘tkazib boruvchi mehnat qurollari va vositalariga aytiladi. Asosiy vositalarga qiymati eng kam oylik ish haqining 15 barobari miqdorida bo‘lgan va bir yildan ortiq muddat xizmat ko‘rsatadigan vositalar kiradi[1]..



Raqobatbardosh bozor sharoitida barcha korxona va tashkilotlar resurslardan samarali foydalanish maqsadida axborot va texnologiyalarni o‘z faoliyatiga joriy qilmoqda va iqtisodiyotni rivojlantirish, yangilash, modernizatsiya qilish bo‘yicha olib borilayotgan oqilona iqtisodiy islohotlar natijasida bugungi kunda raqamli iqtisodiyotni rivojlantirishga erishilmoqda. Jumladan, xo‘jalik yurituvchi subyektlar faoliyatida raqamli texnologiyalarni samarali yo‘lga qo‘yish, ularda raqamli transformatsiya jarayonini amalga oshirishda bajarilishi lozim bo‘lgan hatti-harakatlar ketma ketligiga katta ahamiyat qaratilmoqda. Buning natijasida korxona va tashkilotlar ilg‘or texnologiyalarni qo‘llash orqali quyidagi sezilarli natijalarga erishishi mumkin:

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- raqobatbardosh mahsulot ishlab chiqarishni tashkil etish;
- korxonaning investitsion jozibadorligini oshirish;
- ishlab chiqarish va tashkiliy jarayonlarning moslashishuviga erishish;
- yuqori samaradorlik va bajarilayotgan operatsiyalarni optimallashtirish;
- korxonaning iqtisodiy samaradorligini kafolatlaydigan boshqaruv tizimining moslashuvchanligi va shaffofligini oshirish.

Raqamli transformatsiya korxonalarning daromadlarini va investitsion jozibadorligini yaxshilashda muhim rol o‘ynadi. Yuqori texnologiyali ishlab chiqarish jarayonlarini avtomatlashtirish, boshqaruvda ma’lumotlar bazasidan oqilona foydalanish kabi imkoniyatlari bilan raqamli texnologiyalar har qanday korxona uchun ularning samaradorligiga katta ta’sir etuvchi omil hisoblanadi[2].

Axborot texnologiyalari korxonalarda asosiy fondlardan foydalanish samaradorligini oshirishda hal qiluvchi muhim rol o'ynaydi. IT xizmatlari sezilarli ta'sir ko'rsatishi mumkin bo'lgan bir qator muhim yo‘nalishlar quyidagilar hisoblanadi:

Axborotlarni boshqarish: IT xizmatlari korxonalarga katta hajmdagi ma’lumotlarni to‘plash, tahlil qilish va xulosa chiqarish imkonini beradi. Korxona ichki va tashqi muhit o'rtasidagi aloqa tizimini takomillashtirish, yuqori sifatli ma'lumotlarni tezkor qidirish, himoyasiga qo'yiladigan yangi talablarni hisobga olgan holda axborotni qayta ishlash, uzatish va saqlash.

Jarayonlarni avtomatlashtirish va soddalashtirish: AT xizmatlari turli biznes jarayonlarini avtomatlashtirish va tartibga solish orqali qo'l mehnatini kamaytiradi va samaradorlikni oshiradi. Ish jarayonini avtomatlashtirish, hujjatlarni boshqarish tizimlari va operatsiyalarni optimallashtirish, xatolarni kamaytirish va resurslarini tejashga yo'naltirilgan ilg'or texnologiyalarni joriy etish, ish jarayonlarini intellektuallashtirish, samaradorlikni oshirish imkonini beradi.

Tashqi muhit bilan o‘zaro aloqa: bozorni o‘rganish va tahlil qilish, korxona faoliyatiga innovatsion echimlarni izlash va dunyoning barcha nuqtalaridan iste'molchilarga erishish imkonini beradi.

Jarayonlarni optimallashtirish: AT tizimlari biznes jarayonlarini soddalashtirish va optimallashtirish uchun ishlatilishi mumkin. Ish oqimlarini raqamlashtirish va ish jarayonini boshqarish tizimlarini joriy etish orqali korxonalar qiyinchiliklarni bartaraf etishi, xatolarni kamaytirishi va umumiy samaradorlikni oshirishi mumkin[3].

Xulosa: Xulosa qilib aytish mumkinki, korxona va tashkilotlarda asosiy vositalardan samarali foydalanishda zamonaviy texnologiyalar va ularning ijobiy va salbiy tomonlarini puxta rejalashtirish va har tomonlama o‘rganish bilangina istalgan samarani olish mumkin. Bunda, jarayonlarni soddalashtirishi, vazifalarni avtomatlashtirishi, aloqa va hamkorlikni yaxshilashi mumkin. Bu xarajatlarni tejashga, qarorlar qabul qilishni yaxshilashga va bozorda raqobatdosh ustunlikka olib keladi. Korxona va tashkilotlar hodimlarning ushbu vositalardan samarali foydalanishlarini ta'minlash uchun malakasini oshirish va qo'llab-quvvatlashga sarmoya kiritishlari juda muhimdir.

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STATE-OF-THE-ART SOLUTIONS TO THE FUZZY LINEAR PROGRAMMING PROBLEM.

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Annotation: This article outlines the state-of-the-art solutions for solving fuzzy linear programming problems. It begins by explaining the role of fuzzy linear programming in decision-making under uncertain circumstances. The article then dives into various modern solutions such as the Fuzzy Simplex Method, Heuristics Algorithms, Genetic Algorithms, Fuzzy Number Ranking Methods, Fuzzy Goal Programming, and the use of Artificial Neural Networks (ANNs) and Swarm Intelligence (SI). These solutions have evolved to effectively cope with the complexities of fuzzy linear programming, broadening its application in various fields. The article concludes by forecasting the future of fuzzy linear programming resolution techniques, with advancements in artificial intelligence, machine learning, and computational power pointed out as having the potential to create more sophisticated systems.

Keywords: Fuzzy Linear Programming, Fuzzy Simplex Method, Heuristics Algorithms, Genetic Algorithms, Fuzzy Number Ranking Methods, Fuzzy Goal Programming, Artificial Neural Networks, Swarm Intelligence, Uncertainty, Decision-making, Artificial Intelligence, Machine Learning, Computational Power.

Introduction:

In the realm of decision-making and optimization problems, fuzzy linear programming has emerged as a robust tool, enabling the incorporation of fuzzy set theory to handle uncertainty. Originally, linear programming was formulated for dealing with deterministic systems. However, real-world problems often entail ambiguities and uncertainties that demand an evolved approach. Fuzzy linear programming addresses these issues, presenting a nuanced method that can manage imprecise and vague data, commonly found in dynamic environments. While this adds a layer of complexity to problem-solving, computational advancements, and innovative algorithms have spurred a new era of solutions. This article delves into an exploration of the state-of-the-art solutions to the fuzzy linear programming problem, encapsulating their mechanics, implications, and potential for future advancements.

Fuzzy linear programming, a variant of linear programming, brings a major advancement by incorporating the theory of fuzzy sets to solve decision-making problems under uncertainty. However, these problems present a new level of complexity, but recent development in computational techniques and algorithms have spurned a number of state-of-the-art solutions to the fuzzy linear programming problem.