



Mobilnye roboty na baze Arduino (+ nabor elektronnykh komponentov)

By Mikhail Momot

BKHV-Peterburg. Condition: new. Esli vy khotite nauchitsja konstruirovat mobilnogo robota, no u vas poka net znaniy, opyta, detalej i elektronnykh komponentov, to etot nabor razrabotan spetsialno dlja Vas. V ego sostav vkhodit plata Arduino, neobkhodimye elektronnye komponenty, dvigateli, 4-kh kolesnoe shassi, a takzhe populjarnaja kniga M.Momota "Mobilnye roboty na baze Arduino".Vy uznaete, iz kakikh uzlov состоit prostejshij robot i kak vypolnjat elektricheskie soedinenija. Nauchites programmirovat kontroller Arduino i podkljuchat razlichnye datchiki dlja vzaimodejstvija robota s vneshnim mirom. Izuchite khodovuju chast i osnovy upravlenija dvigateljami. Uznaete, kak organizovat distantsionnoe upravlenie robotom s pomoshchju smartfona s operatsionnoj sistemoj Android ili s pul'ta distantsionnogo upravlenija. Smozhete sobrat razlichnykh robotov, postroennykh na osnove prostoj bazovoj modeli i sposobnykh vypolnjat razlichnye zadachi: nakhodit vykhod iz labirinta, igrat v kegelring, dvigatsja po kompasu, orientirovatsja v prostranstve i dr.Vy smozhete:- izuchit osnovy programmirovanija kontrollera Arduino- skonstruirovat bazovuju model mobilnogo robota- distantsionno upravljat robotom s pomoshchju IR-pul'ta ili smartfona Android- izuchit bazovye algoritmy upravlenija robotom- modernizirovat i obuchit bazovogo robota dvizheniju po linii, vykhodu iz labirinta, puteshestviju po komnate, igre v kegelringSostav nabora:- Kontrollerx1 Arduino UNO R3 + kabel USB- Datchikix1 Ultrazvukovoj dalnomer HC-SR04x3 Datchik prepjatstvija3 Datchik linii TCRT 5000x1 Elektronnyj kompas GY-271 (HMC5883L)- Elementy krepzhax1 Maketnaja plata...



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