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## #3347 SUMMARY

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### SUBMISSION

Authors	Nuril Esti Khomariah, Hana Nofia Safitri	
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#### TITLE AND ABSTRACT

Title	IMPLEMENTASI LOGIKA FUZZY UNTUK OBSTACLE AVOIDING PADA ROBOT LINE FOLLOWER
Abstract	<p>Perkembangan ilmu pengetahuan teknologi dan robotika saat ini sudah semakin berkembang pesat baik di bidang industri, rumah tangga, maupun pendidikan. Banyaknya penelitian dan kompetisi di bidang robotika membuat terciptanya inovasi – inovasi baru seperti menambahkan sensor bahkan metode kontrol. Penggunaan robot paling banyak adalah untuk membantudan mempermudah pekerjaan manusia. Oleh karena itu robot harus didesain dengan sangat baik sehingga meminimalisir terjadi kesalahan seperti menabrak suatu objek. Oleh karena itu dibutuhkan fitur obstacle voiding dimana fitur ini menggunakan 2 sensor jarak sebagai data masukan agar robot tidak sampai menabrak objek lain didepannya. Pada penelitian ini akan dibuat sebuah mobile robot pengikut garis (line follower) dengan tambahan fitur obstacle avoiding. Dimana fitur obstacle avoiding didapatkan dari hasil proses metode fuzzy logic. Robot akan berjalan sesuai dengan jalur dari garis namun ketika ada suatu objek menghalangi, maka robot akan menentukan jalan baru untuk menghindari dan kembali ke jalur garis yang seharusnya. Hasil dari penelitian ini adalah robot dapat bergerak sesuai dengan jalur garis serta ketika diberi objek kubus dengan sisi 15-25cm robot dapat menghindari dengan baik.</p>

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#### CURRENT INDEXING



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