



#70 (1570526603): Review and Design of Enviromental Smart Detector for Autonomous Vehicle in Urban Traffic

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Paper title *Review and Design of Enviromental Smart Detector for Autonomous Vehicle in Urban Traffic*

Conference and track International Conference on Electrical and Electronic Engineering 2019 - Mechatronic & Robotic Engineering

Abstract This paper discusses the design and proposed system of autonomous vehicle's detector using...



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Keywords Autonomous vehicle; environment detector; ultrasonic array; range finder Only the chairs can edit

Topics MECHATRONIC AND ROBOTIC

Personal notes

Roles You are an author for this paper. You have authored an accepted paper in this conference.

Status Accepted

Presented by not specified

Final manuscript

Review

Actions	Originality	Technical Contribution	Significance of Topic	Presentation	Recommendation
completed	Neutral	Weak Accept	Accept	Weak Accept	Weak Accept

Contributions
 This paper addressed a review and proposed a design system for an autonomous vehicle's detector using the ultrasonic array for Urban Traffic.

Strengths & Weakness
 Overall, this is a clear written manuscript.

Detailed comments
 The introduction is relevant. Sufficient information about the previous study findings is presented for readers to follow the present study rationale and procedures. The methods are generally appropriate, although clarification of a few details and provision of a rationale for the use of this particular method should be provided.
 Needs proofreading, typo error Around, traffic

completed	Neutral	Neutral	Accept	Weak Accept	Neutral
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Contributions	Strengths & Weakness	Detailed comments
Design the Environmental Smart Detector for Autonomous Vehicle integrate with neural network.	<p>Strengths Review and Design of Environmental Smart Detector for Autonomous Vehicle in Urban Traffic</p> <p>Weakness There no result and discussion. The paper seems has no ending. The objective of the paper also not clear.</p>	<p>There is typo error. Please check the whole article.</p> <p>"Each condition requires different settings as the adaptation to detected object[1]" the way u place the full stop is incorrect.</p> <p>"...algorithm[3][4]" place check the space.</p> <p>"Another system that is widely used is ADAS (Advanced Driver Assistant System) [8][9][8]." place check the space.</p> <p>"In their experiment, Kai-Tai Song and the team (2004) designed and implemented an ultrasonic sensor system to avoid lateral accident of vehicle in low speed." Please include the reference.</p> <p>Please check the way you place the full stop at the whole article.</p> <p>the unit "km/h" is not consistent, sometimes author use km/hr.</p> <p>sometimes author use Fig, sometimes Figure. Not consistent.</p> <p>Figure 5 not clear. What is the meaning of "T"? Normally people use "Yes and No".</p>
completed	Accept	Accept
completed	Accept	Accept
completed	Accept	Neutral
completed	Accept	Neutral
completed	Accept	Neutral

Contributions	Strengths & Weakness	Detailed comments
As discussed in the paper, previous researches used PID, fuzzy logic, and genetic algorithm while the proposed method use neural network.	<p>Strength Proposed method use neural network while previous works used PID, fuzzy logic, and genetic algorithm. The front and rear sensors can adapt to vehicle speed in order to increase or decrease range detection to avoid collision.</p> <p>Weakness Too many typos (even in the title), too many extra spacing between words, and some sentences are not properly written. Seems that the paper has never been proofread.</p>	<ol style="list-style-type: none"> Figure 1 and 5 - Please enhance the image and increase the font size. They are pixelated when zoomed-in. Size of figures are too small making them hard to read. Figure 1 - The correct word is "Algorithm". Caption on Figure 2 should be written as "Fig. 2". Arduino should be written as "Arduino" and not "arduino". Introduction - "Autonomous Vehicle" should be written as "autonomous vehicle". Citation should be written before a full stop (,). Too many typos: Environmental, around, inference, adobted, intelligent, traffic, forty, thought, manoevers, develop, between, measured, tansducer, sparation, emitter, repeted, control, sirtenvals, thats, right, midle, Rasbery Phi, algortim, wit. Important - Please consider sending the paper for proofreading services before submitting for publication! Fix extra space between words: are microprocessor, the right side, system to,

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