

YEAR	TITLE	ABSTRACT	REMARK
2010	Eigenfaces Method Implementation on Face Recognition Application with Different Distances	<p>Face recognition system is one kind of biometric technology. This system use a computer to analyze people's face structure which was captured by a camera/ video camera then compare it to a provided face database. Face recognition system has come to a wide area drawing attention for researchers since a long period. A neural network system was used for detecting and recognizing a face that were taken from three different distances. The result of using NN does not give good performance. Face images were taken in a frontal position. Therefore, a face recognition system that could recognize faces which were taken from different distances is important. In this research, the author made a face recognition application that can recognize faces which were taken from three different distances (1/2 meter, 1 meter, 2 meter) using eigenfaces method. This application was made using Java language programming and OpenCV library.</p>	<p>Jurnal Ilmiah Teknik Komputer JITK Vol 1, No.2, Mei 2010, Kelompok Keilmuan Teknik Komputer, LSKK-STEI ITB, ISSN : 2085-6407, pp. 85-96</p>
2010	Mobile-based Interaction using Dijkstra's Algorithm for Decision-Making in Traffic Jam System	<p>Traffic jam detection system is a kind of system that can detect traffic in multiple locations. It requires the interaction with a system that requires an algorithm to meet the specific requirements. This paper presents a mobile-based interaction for detecting traffic jam using decision support system. The objectives of this application are to give the user the better online information of traffic flow of whole Jakarta through mobile application and to assist the user for making the decision of choosing an appropriate road. So, the user or the one who needs the information of the current situation on specific roads in Jakarta will be aimed by utilizing this application.</p> <p>In this paper, we propose a mobile-based interaction for detecting traffic jam to provide decision-making using Dijkstra's shortest path algorithm. This algorithm will be used to establish the application in order to set the shortest path that can be passed by the traveler or the user. All of the paths will display the information of various circumstances in which can determine the present state of traffic. This information directly assists the user to avoid traffic congestion and to make a decision to choose the appropriate road.</p>	<p>Proceeding of 2<sup>nd</sup> International Conference on Soft Computing, Intelligent System and Information Technology –ICSIIT 2010, Univ. Kristen Petra Surabaya, ISBN : 978-602-97124-0-7, pp. 159-163</p>

2010	Hand Gestures and Posture Recognition to Control Television Using Haar-Like Features	<p>Earlier time, control of television was only using a specific key or the remote. The development of ever-changing technology led to changes in a way to control the television. Changes in the way should be happen so people can interact with interactive television and user friendly. Because of the demands of time, now it no longer just a television with remote control only. But it can be also done by doing hand gesture. The hand gestures that are performed by humans will be recorded by a camera and then turned it into a command code which commands the television to do something. In this paper, we have two model structures. The first structure use computer, camera, and television. In this structure, the overall process will be performed by the computer. The second structure uses a television which has been embedded with a camera. The overall process will be performed by the television itself. In the recognition posture process, we use Haar-Like Features algorithm. This article is a proposal of idea to make a better communication between human and television.</p>	<p>Proceeding, KOMMIT 2010, Vol 6, Bali, UG, ISSN : 1411 6286, pp. 25 - 28</p>
2010	Expert System for Camcorder Buyer's Guide with User Satisfaction Prediction	<p>A demand of camcorder is increasing rapidly following the development of technology especially in Indonesia. However, public knowledge in camcorder is still very poor so that sometimes people do not buy a camcorder according to their needs and it is risky to fraud. Therefore, we develop a system that can be used to help and give advice which camcorder type fit well the user's need. Our application is made based on expert system method which near to Artificial Intelligence (AI) that makes this application can give a suggestion to buy some products. We made this application with a sophisticated interface, for example in each products output, we will calculate the percentage of the user satisfaction with the product. The application is embedded into a website so user can easily use it without downloading the application first.</p>	<p>Proceeding, KOMMIT 2010, Vol 6, Bali, UG, ISSN : 1411 6286, pp. 429 - 432</p>