







values, the indicated valve selects the affect on FRR and FAR, and applies it to determine the performance of open set recognition, when the recognition rate shown in the results of closed set test reaches 98.5%, the curve of open set test will be shown as below:

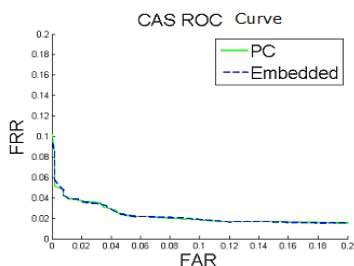


Fig. 4 ROC curves on CAS

We can learn from the experiments that the extraction of the embedded characteristics is relatively higher than the closed set recognition rate of recognition module by comparison, and its ROC curve is closer to PC system, while the performance of open set recognition is relatively good.

Due to the differences in Chinese and western cultures, the development of

### 3. Conclusion

This paper mainly makes related narratives on the development process and algorithm of Da Vinci platform-based face recognition system, from the point of view of the embedded system, it performs module extraction and improvement to Gabor characteristics on the traditional PC platform, puts forward characteristics extraction module for relevant offline fixed point, the experiments show that the system has better recognition performance, its experimental system has obtained commissioning and optimization currently, the system operation is also in relatively good condition. In the future work processes, it mainly includes posi-

tioning function of characteristic points and adding in face detection function, so as to implement the automatic face recognition of the system and further improve the recognition performance of the system itself.

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