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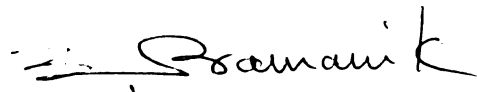
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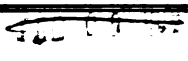
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David Ray Vineyard

A DISSERTATION

Submitted to

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in partial fulfillment of the requirements  
for the degree of

DOCTOR OF PHILOSOPHY

Department of Computer Science

1989