

PREFACE

A university wide programme, URECA or *Undergraduate Research Experience on CAmpus*, is an initiative by the Research Support Office of NTU to generate a research culture amongst the most able undergraduates in NTU. URECA students have the flexibility to choose research projects from any school with any professor in order to gain a good appreciation of research.

It is gratifying to see that since its inception in 2004, URECA has established a track record of bringing out the research talent of NTU's most promising undergraduates. It has been productive in research with a number of international journal papers published directly as a result of the URECA research. In addition, papers published in international conferences have received best paper awards.

Proceedings of the URECA@NTU 2006-07 is a compilation of selected URECA research papers, submitted by the URECA students of 2006-07, co-authored with their respective URECA professors. We hope you would find the Proceedings of the URECA@NTU 2006-07 a valuable record of the URECA research effort from our top undergraduates in NTU. The research papers are organized in school order and in alphabetical order of students within each school.

We take this opportunity to thank the URECA students, DSO-URECA Scholars, and URECA professors for their contribution in this proceedings.

We also thank all the URECA professors, DSO-URECA supervisors and SIMTech-URECA supervisors for their support in the URECA programme.

February 2008

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