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**Langley Research Center**  
Hampton, Virginia 23665

## Introduction

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The major categories of the current ICASE research program are:

- a. Numerical methods, with particular emphasis on the development and analysis of basic numerical algorithms;
- b. Computational problems in engineering and the physical sciences particularly fluid dynamics, acoustics, structural analysis and chemistry;
- c. Computer systems and software, especially vector and parallel computers, microcomputers, and data management.

ICASE reports are considered to be primarily preprints of manuscripts that have been submitted to appropriate research journals or which are to appear in conference proceedings. In the next section a complete listing of ICASE reports for the calendar years 1975 through December 1983 are given. The final section contains journal and conference proceedings references for older reports.

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