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Preface

Dedication to Pete Stewart on the occasion of his 70th birthday

This is a special issue of *Linear Algebra and Its Applications* in honor of G.W. (Pete) Stewart on the occasion of his 70th birthday. Pete has been a guiding light in the field of Numerical Linear Algebra through his long and distinguished career, and he has been a member of the editorial board of this journal for decades. In July 2010, a conference on “Numerical Linear Algebra: Perturbation, Performance, and Portability” was held in Pete’s honor in Austin, Texas. This was accompanied by an annotated volume of selected works of Pete’s, edited by Misha Kilmer and Dianne O’Leary and published by Birkhäuser. This special journal issue was designed in collaboration with the editors of LAA to showcase the state of the art in computational linear algebra, to which Pete devoted his professional career, at the time he reached the milestone of 70 years.

The subject is a continuing source of rich and important research, and the volume touches upon essentially all of the important topics in the field. The papers (identified below by the names of their first authors) can be grouped loosely into nine categories:

- Linear eigenvalue problems (Li, Xue, Mehrmann, Malyshev)
- Nonlinear eigenvalue problems (Tisseur, Betcke, Grammont)
- Matrix functions (Moore)
- Total least squares (Park, Li)
- Tensor computations (Resghi, Kilmer)
- Stochastic matrices (Higham)
- Perturbation analysis (Alam)
- Krylov subspace methods (Benner)
- Linear system solution (Bai)

Pete Stewart has made major contributions in all of these categories, and we are very pleased to be able to showcase the excitement of the discipline at this signature moment in his life. We are hopeful that the work represented in this volume is consistent in quality with the body of work produced by Pete, and we are pleased to dedicate the volume to him.

Special editors

- Zhaojun Bai
- Michele Benzi
- Howard Elman
- Nick Higham
- Misha Kilmer
- Volker Mehrman (Editor-in-Chief, LAA)