METHODS AND APPLICATIONS OF ANALYSIS.
Vol. 15, No. 1, pp. iii–iv, March 2008
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PREFACE

Professor Neil Trudinger is one of the most distinguished analysists in our time. He has made numerous important contributions for partial differential equations and related analysis and geometry, which include the fundamental Harnack inequalities for elliptic and parabolic equations; the Moser-Trudinger inequality; partial solution to the famous Yamabe problem on conformal deformation; and more recently, solution to the Chern conjecture in affine geometry and the first complete proof of the Monge problem of mass transfer by him and his collaborators. Besides the remarkable research achievements, Neil has had a tremendous impact and influence on generations of mathematicians worldwide by his fundamental work "Elliptic Partial Differential Equations of Second Order", co-authored with David Gilbarg, which has become a classic in mathematics since its first edition in 1977.

Thus, it is a great honor for the journal Methods and Applications of Analysis to dedicate these two special issues to Professor Neil Trudinger on the occasion of his sixty-fifth birthday. These two special issues consist of 17 original research articles from some leading experts in the field of analysis, which covered a wide spectrum in analysis, geometry, and partial differential equations. These papers are authored by students, collaborators, and friends of Neil with topics closely related to Neil's researches.

We are grateful to all the distinguished authors who have contributed their significant articles to honor Professor Neil Trudinger's sixty-fifth birthday. At this special occasion, we would like to express our deepest admiration to Professor Trudinger and to wish him a happy birthday.

Editors of MAA