## Contents

**Preface**  
ix

**Contributors**  
3

**OVERVIEWS**  
1. What tools do we have to detect invasive plant species?  
   M. Rejmanek  
   3

2. The search for patterns that enable prediction of invasion  
   S. Reichard  
   10

3. Can the impacts of invasive species be predicted?  
   M. Williamson  
   20

4. Priorities for weed risk assessment: using a landscape context to assess  
   indicators of functions, services and values  
   L.A. Wainger & D.M. King  
   34

5. Evaluating pest-screening systems – insights from epidemiology and ecology  
   W.M. Lonsdale & C.S. Smith  
   52

6. A comparison of systems to analyze potential weed distributions  
   D.J. Kriticos & R.P. Randall  
   61

**NATIONAL PERSPECTIVES**  
7. Weed risk assessment for plant introductions to Australia  
   P.C. Pheloung  
   83

8. Implementation of a permitted list approach to plant introductions to Australia  
   C.S. Walton  
   93

9. Assessing the risk to indigenous biota of plant taxa new to New Zealand  
   P.A. Williams, E. Nicol & M. Newfield  
   100

10. Pest risk assessment in the United States: guidelines for qualitative assessments  
    for weeds  
    P.P. Lehtonen  
    117

11. Towards a system to determine the national significance of weeds in Australia  
    J.G. Virtue, R.H. Groves & F.D. Panetta  
    124
CONTENTS

REGIONAL PERSPECTIVES

12. Invasive plant problems and requirements for weed risk assessment in the Galapagos Islands
   A. Tye
   153

13. Weed risk assessment and prevention in Hawaii: status and practicalities
   P.A. Thomas
   176

14. Commercial use, physical distribution, and invasiveness description: three reasons why Florida still struggles with invasive plants
   R.K. Stocker
   182

15. The effect of introduction pressure on the naturalization of ornamental woody plants in south-eastern Australia
   M. Mulvaney
   186

16. A weed risk assessment model for aquatic weeds in New Zealand
   P.D. Champion & J.S. Clayton
   194

17. Categorizing invasive plants: the challenge of rating the weeds already in California
   J.M. Randall, N. Benton & L.E. Morse
   203

18. Scary species, superlative sites: assessing weed risk in New Zealand's protected natural areas
   S.M. Timmins & S.-J. Owen
   217

SYNTHESIS

19. Weed risk assessment: core issues and future directions
   F.D. Panetta, A.P. Mackey, J.G. Virtue & R.H. Groves
   231

Index

241