

## CONTENTS

### **PART I. Professor Makoto Matsumoto**

— Photos of Makoto Matsumoto	3
Hideo SHIMADA and Sorin V. SABAU — Matsumoto's legacy. The life and work of Professor Makoto Matsumoto	7

### **PART II. Hunting Unicorns and other topics of global Finsler Geometry**

David BAO — On two curvature-driven problems in Riemann-Finsler geometry	19
Sándor BÁCSÓ, Xinyue CHENG and Zhongmin SHEN — Curvature properties of $(\alpha, \beta)$ -metrics	73
Ioan Radu PETER — A connectedness principle in positively curved Finsler manifolds	111
Sorin V. SABAU and Hideo SHIMADA — Riemann-Finsler surfaces	125
Lajos TAMÁSSY — Finsler geometry in the tangent bundle	163

### **PART III. Finslerian inspired Differential Geometry**

Peter L. ANTONELLI and Solange F. RUTZ — Perturbations of constant connection Wagner spaces	197
Mike CRAMPIN and David J. SAUNDERS — Path geometries and almost Grassmann structures	225
Rezső L. LOVAS, Johanna PÉK and József SZILASI — Ehresmann connections, metrics and good metric derivatives	263
Radu MIRON — Dynamical systems of the Lagrangian and Hamiltonian mechanical systems	309

### **PART IV. Complex Finsler Geometry**

Tadashi AIKOU — The Chern-Finsler connection and Finsler-Kähler manifolds	343
Pit-Mann WONG — A survey of complex Finsler geometry	375