

PREFACE

This thesis “**Ideal Theory of Sum-Ordered Partial Semirings**” submitted for the award of the degree of Doctor of Philosophy in Mathematics of the Acharya Nagarjuna University forms the research work done by me in the Department of Mathematics, Bapatla Engineering College, Bapatla.

In the ‘Introduction’, which also explains the origin of the present work, the various results proved in this thesis are briefly presented. In Chapter 0 the existing literature relevant to the work of this thesis is collected.

The material of Chapter 1 is published in the International Journal of Computational Cognition (IJCC), vol. 7, No. 2, June 2009 (see [28]). The material of §2.1 and §2.2 is published in the International Journal of Computational Cognition (IJCC), vol. 7, No. 2, June 2009 (see [27]). The material of §2.3 is published in Advances in Algebra, vol. 3, No. 1, 2010 (see [31]). The material of §3.1 and §3.2 is published in the International Journal of Computational Cognition (IJCC), vol. 8, No. 4, Dec 2010 (see [29]). The material of §3.3 and §3.4 is published in the International Journal of Computational Cognition (IJCC), Vol. 9, No. 2, June 2011 (see [30]). The material of Chapter 4 is communicated to the Jordan Journal of Mathematics and Statistics, Jordan.

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P.V. Srinivasa Rao