

# Preface

The studying of Logic in Brazil has enjoyed a wide influence on the field due in large measure to the teachings, writings, and efforts of Newton C.A. da Costa spanning a period of half century or more.

The many hours I have spent in seminars, lectures, and private conversations with Prof. Newton Costa were a real privilege.

This present book gives me special satisfaction to be able to record my gratitude and admiration to Prof. Newton Costa on this occasion.

One of da Costa's major virtues is the construction (with other logicians independently) of a new type of non-classical logic, namely the so-called paraconsistent logics (da Costa's  $C_n$  systems). Roughly speaking, such systems allow contradictions in their interior without trivialization. This is a rare contribution in pure science made by Brazilian scientists.

In the beginning of my career I have experienced people observing 'paraconsistent systems can be even interesting, but there is no intrinsic value at all, so there are not relevant applications'...

This book is devoted to some applications of annotated logics, which are a kind paraconsistent (and generally also paracomplete) logics.

I hope that this tiny collaboration deserves the attention of more experts to become interested in the subject that is undoubtedly promising.

I would like to express thanks to the collaborators who were willing with high-level works. Without them this book would have not been possible.

Last but not least, I am deeply grateful to Prof. Lakhmi C. Jain for his encouragement and opportunity offered to accomplish this project.

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