



# Real Operator Algebras and Real Positive Maps

David P. Blecher  and Worawit Tepsan

**Abstract.** We present some foundations for a theory of real operator algebras and real Jordan operator algebras, and the various morphisms between these. A common theme is the ingredient of *real positivity* from papers of the first author with Read, Neal, Wang, and other coauthors, which we import to the real scalar setting here.

**Mathematics Subject Classification.** Primary 17C65, 46L05, 46L70, 47L05, 47L07, 47L30, 47L70; Secondary: 46H10, 46B40, 46L07, 46L30, 47B92, 47L75.

**Keywords.** Operator algebra, Real Jordan operator algebra, Real operator system, Real completely bounded maps, Real positive maps, Approximate identities.

## 1. Introduction

In a 2016 paper [39], Rosenberg commented “Over the last thirty years . . . it has become apparent that real  $C^*$ -algebras have a lot of extra structure not evident from their complexifications. At the same time, interest in real  $C^*$ -algebras has been driven by a number of compelling applications.” He goes on to mention the classification of manifolds of positive scalar curvature, representation theory, the study of orientifold string theories, and the real Baum–Connes conjecture. Even the problem of whether a complex  $C^*$ -algebra is the complexification of a real  $C^*$ -algebra is a difficult one, with contributions by Connes [21], Jones, Stormer, etc.

On the other hand, Böttcher and Pietsch comment in [11] that the impression sometimes given that results about complex Hilbert spaces carry over *mutatis mutandis* to the real case, should not be taken too literally. They go on to point out that searching in Mathematical Reviews for publications whose title contains the term ‘Hilbert space’ yields an output of approximately 10,000, while asking for ‘real Hilbert space’ reduces the result to 100 (we have changed their numbers to the current ones). They suggest that this

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# Real Operator Algebras

**SJ Ball**



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