

Special Issue

Combining Logics and Theories

Message from the Guest Editors

Despite the great variety of logics that exist nowadays, it is not common to find a logic allowing for reasoning with several concepts simultaneously, such as time, space, belief, knowledge, necessity, possibility, obligation and action, among others. A similar phenomenon occurs when working with theories. Although this specialization allows each logic/theory to capture with great precision the envisaged concept, in most of the cases, it requires that we work with several notions at the same time. The pioneering works on combining logics and theories can be traced back to the studies of Barwise in 1974 and to Thompson, Janiczak and Rogers in 1952-1956 on categorical relationships between logics and on the combination of theories, respectively. Since then, there have been significant research efforts in both fronts. Several mechanisms have been proposed for combining logics, such as products of modal logics (Shekhtman 1978), fusion (Thomason 1980) and fibring (Gabbay 1992), together with preservation results. This Special Issue aims to gather high-quality papers presenting various combinations of logics and theories and their applications.

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