This volume contains research papers and position papers presented at the 5th International Workshop on Distributed Event-Based Systems (DEBS). The Workshop on Distributed Event-Based Systems began in 2002. Because of its inter-disciplinary nature, it has been hosted in diverse conferences, including ICDCS, SIGMOD/PODS, and ICSE. In 2006, the Workshop returned to ICDCS and was held as part of the 26th International Conference on Distributed Systems in Lisbon, Portugal.

Event-based systems are receiving increased interest both in the academic and the commercial communities, as a paradigm for timely dissemination of information between loosely coupled producers and consumers. The purpose of this workshop is to bring together people from academia and industry interested in the foundations, implementation, and application of all aspects of event-based middleware, from traditional topic-based and content-based publish-subscribe, to event correlation, streaming queries, mediations, and systems integration. The workshop supports contributions from practitioners in industry and government, as well as from academic and industrial researchers. It encourages submissions covering a broad range of issues, ranging from service specifications, to algorithms for implementing these services efficiently, reliably, and scalably, to applications of event-based systems to real-world problems. There is overlap between research in distributed event-based systems and other disciplines, such as mobile computing, networking, autonomic computing, and continuous queries over data streams. It is our goal to bring people together from many of these disciplines and to combine the perspectives of theoreticians and practitioners, system developers and system users.