In 1905 Einstein published three papers that led to breakthroughs in science and technology. A hundred years later, one application of Einstein’s work is enabling us to explore and understand the Universe more than ever and is initiating new branches of science. This has expanded our concept of the Universe far beyond what was imagined at the beginning of the 20th century. Interestingly, this (faithful) application has recently provided proofs for an exotic prediction of another theory of Einstein. In this talk I will present the impact of some of Einstein’s work in astronomy and astrophysics and the revolution they introduced to our understanding of the Cosmos.