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Models of motion in biology

Understanding motion of biological objects (molecules, cells, organisms, populations) is of fundamental importance in biology. This minisymposium will showcase recent work on biological motion at every scale, from nanometer-sized proteins to collections of large animals. Common themes and questions emerge. For instance, to what extent can we approximate biological motion by diffusive motion? How can we model interactions between large numbers of moving objects that each obey simple physical rules of behaviour? How can experimental time-courses for individual objects reveal the laws of motion? In this introduction talk I will outline some of the challenges and possibilities in this field.