

Health care - a complex system

Abstract:

A new generation of comprehensive health care data allows us for the first time to take a look at medicine and health care systems as complex dynamical systems. This data can be used to reconstruct health-trajectories of millions of individual patients and literally see health care at work, including co-morbidities, disease progressions, side-effects, and efficiencies of therapies. On the systemic level it becomes possible to make health care coverage visible and to compute systemic risks of failing national systems. We demonstrate the importance of this data for planning and maintaining cost effective and efficient national health care systems in the times of LLMs.