

سمینار هفتگی گروه آمار

# Joint Modeling of Longitudinal and Time-to-Event Data

سخنران:

سرکار خانم دکتر حبیبی راد

دانشیار گروه آمار دانشگاه فردوسی مشهد

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آدرس وبینار:

[vroom.um.ac.ir/fakoor](http://vroom.um.ac.ir/fakoor)

**Abstract** Survival analysis is used to predict the timing of an event of interest, such as the death of a patient. The usual endpoint or outcome of survival data consists of the two random variables of the time to the event and a censoring code (0 if censored, 1 if event). Research questions in modeling of survival analysis often involve examining the extent to which covariates are valuable in prediction. If the covariates are repeatedly measured over time then it is most informative to use all the longitudinal data for prediction. Research questions in survival analysis often involve examining the extent to which covariates are valuable in prediction. If the covariates are repeatedly measured over time then it is most informative to use all the longitudinal data for prediction. So, joint modeling is appropriate when one wants to predict the time to an event with covariates that are measured longitudinally and are related to the event.