Doubly Robust Estimation of Shared-Parameter Adaptive Treatment Strategies

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Abstract:

G-estimation is an often overlooked tool for estimation of optimal adaptive treatment strategies. In this talk, I will demonstrate why this approach should be given further consideration, and introduce G-estimation of an adaptive treatment strategy in which parameters are shared across different stages of the treatment sequence. Shared parameters G-estimation allows for more efficient estimation and simpler treatment decision rules, can be fit using an approach that is computationally stable, and produces consistent estimators that are doubly robust. An illustrative example will be used to demonstrate key features of the approach.

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Note: Taking photos during the seminar is prohibited

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