

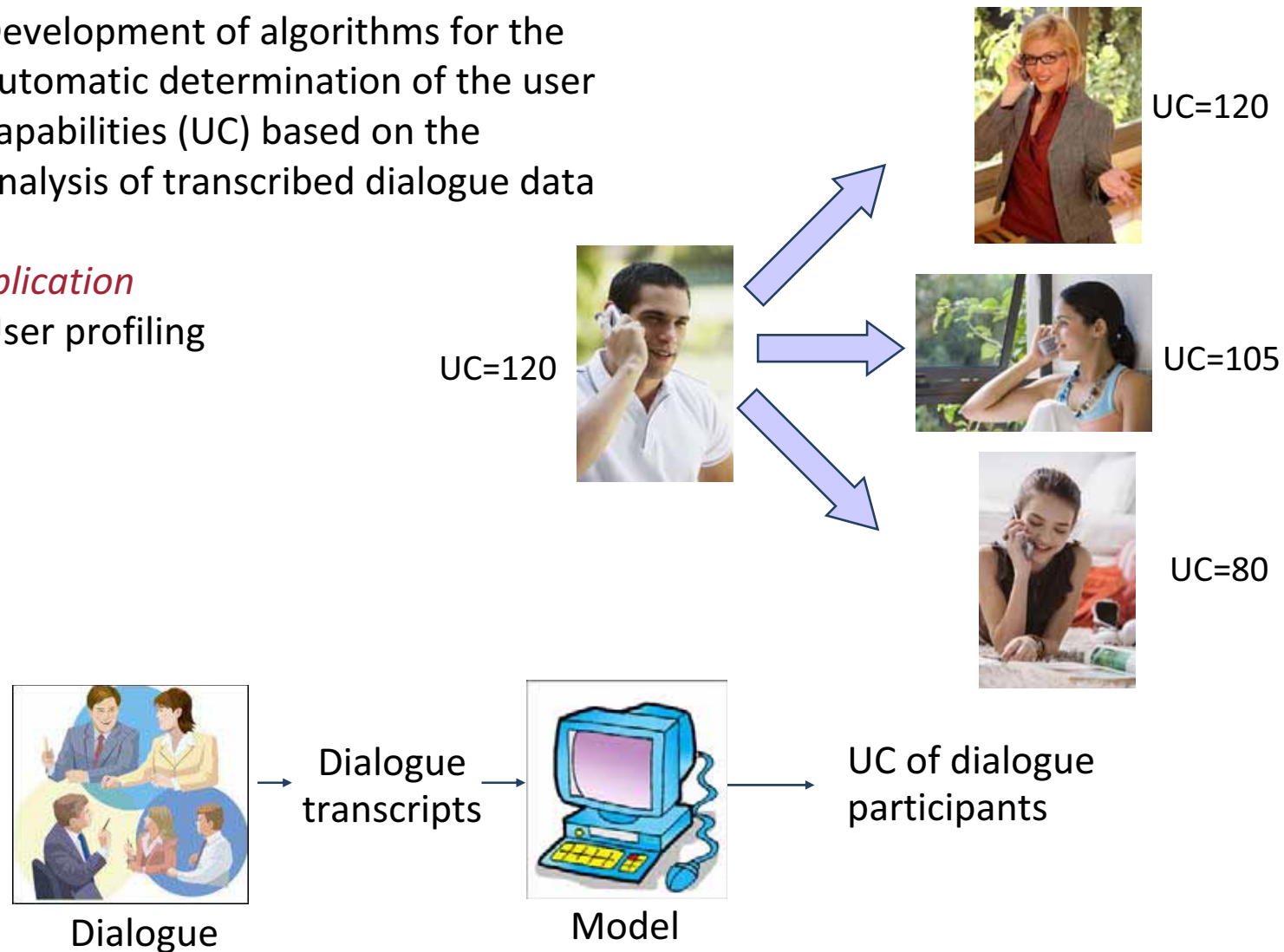
## User Capability Detection Based on Dialogue Analysis

### *Problem statement*

- Development of algorithms for the automatic determination of the user capabilities (UC) based on the analysis of transcribed dialogue data

### *Application*

- User profiling



## User Capability Detection Based on Dialogue Analysis – Methods

- Collecting monologues from different speakers
- Measuring user capabilities (UC) using conventional tests
- Identifying **features** from monologues, correlating with these capabilities (e.g. average number of words per sentence, relative frequency of used words, complexity of the sentences, etc.)
- Modeling dependency between UC and features
- Evaluating model performance on test data
- Extending to dialogue situation, accounting for different user roles

