COURSE DETAIL

AUTOMATIC SPEECH RECOGNITION

Country
United Kingdom - Scotland

Host Institution
University of Edinburgh

Program(s)
Scottish Universities,University of Edinburgh

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
114

UCEAP Course Suffix

UCEAP Official Title
AUTOMATIC SPEECH RECOGNITION

UCEAP Transcript Title
AUTO SPEECH RECOG

UCEAP Quarter Units
4.00

UCEAP Semester Units
2.70

Course Description
This course covers the theory and practice of automatic speech recognition (ASR), with a focus on the statistical approaches that comprise the state of the art. The course introduces the overall framework for speech recognition, including speech signal analysis, acoustic modeling using hidden Markov models, language modeling, and recognition search. Advanced topics include speaker adaptation, robust speech recognition, and speaker identification. The practical side of the course involves the development of a speech recognition system using a speech recognition software toolkit.

Language(s) of Instruction
English

Host Institution Course Number
INFR11033

Host Institution Course Title
AUTOMATIC SPEECH RECOGNITION

Host Institution Campus
Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
Informatics