Institute
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aduate programs in language technologies, please contact us at

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tation or in violation of federal, state, or local laws or executive orders. However, in the judgment of the
, the Department of Defense policy of, "Don't ask, don't tell, don't pursue," excludes openly gay, lesbian,
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on University by calling (412)268-2000.

Language Technologies I

The Language Technologies Institute (LTI) of the Schoo
Carnegie Mellon University conducts research and provi
all aspects of language technology and information ma
established in 1996, as an expansion of the Center for Ma

The CMT now exists as the research branch of the LTI de
research in all aspects of natural language processing, with a
translation, speech processing, and information retrieval.
and industrial researchers specializing in various aspects of
intelligence, computational linguistics, and theoretical ling
rich and diverse environment for collaboration among facu
and qualified students.

School of Computer Scien

The School of Computer Science is one of the largest c
devoted to the study of computers. The school consists
Science department, a Robotics Institute that applies artif
physical world, a Language Technologies Institute that fo
problems, and a Human-Computer Interaction Institute
interfaces.

Carnegie Mellon Universi

Carnegie Mellon is a privately supported university de
excellence in the creation and dissemination of knowledge
research. Built upon the strong educational ideas of its f
has grown into an institution of academic prominence. Fo
Carnegie, the Carnegie Institute of Technology merged w
Mellon Institute in 1967 to form Carnegie Mellon Universit
is renowned for its innovated programs in engineering and

ograms in Language Technologies

s in Language Technologies draw on the LTI's long-standing computer processing of written and spoken language. The te programs are based on a set of approved courses that cover approaches, basics of computer science, and in-depth coverage guage technology. Machine translation, information retrieval, n are strongly emphasized. Students benefit from a modular es, in which they learn the basics of natural language technology ds-on practice. In addition, students have the opportunity to n with courses from the other departments in the School of the Robotics Institute, the Computer Science Department, and Interaction Institute.

Language Technologies

age Technologies (MLT) is a professional degree. Students mpleting the degree requirements in a two-year track or in a onth track. Students choose an individualized curriculum from ses and self-paced laboratory modules. Courses are chosen to n one of three language technology areas: machine translation, or speech recognition. Faculty advisors work with students to ualized curricula and supervise an optional Masters project. n focus on original research or a significant contribution to an nology.

am in Language and Information Technologies

draws on the same set of approved courses and laboratories as requirements provide students with a broader education in all hnology and computational linguistics. Ph.D. students can eoretical aspects of computational linguistics, as well as the chnology areas. Ph.D. students must also complete a Masters original research, demonstrate proficiency in writing, ming, and teaching, as well as complete and defend a Ph.D. ficant original research.

Research Projects

DIPLOMAT *Machine Translation*
Rapid-deployment of unrestricted speech-to-speech translation pairs, using our Multi-Engine MT technique. Current bidire include Serbo-Croatian/English, Haitian-Creole/English, and
Contact: Robert Frederking (ref@cs.cmu.edu)

JANUS *Machine Translation*
Speech-to-Speech Translation of Spontaneous Conversation languages. Current languages include English, German, Span and Chinese. The JANUS technology has been applied to an Int a Portable Translator, and a Passive Dialog Interpreter.
Contact: Alex Waibel (ahw@cs.cmu.edu), Alon Lavie (alav Levin (lsl@cs.cmu.edu)

KANT *Machine Translation*
Knowledge-based, Accurate Translation for technical docume include electric power utility management and heavy equipm large-scale KANT application is underway in a joint effort w
Contact: Eric Nyberg (ehn@cs.cmu.edu), Teruko Mitamura (

Topic Detection *Information Retrieval*
Categorization, retrieval, clustering, and summarization of translingual information access; intelligent search in digital lib environment. Development of novel statistical learning meth existing techniques that scale to very large practical problems event coding, Reuters news story topic spotting, and Japanese
Contact: Yiming Yang (yiming@cs.cmu.edu)

Other Research Projects
Fluency *Foreign Language Learning Using Speech Recogni*
Contact: Maxine Eskenazi (max@cs.cmu.edu)

Related Activities
CMU Linguistics Reading Group