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Prepared by PI

All by Status

PI Organization: Mississippi State University

### Forward Request for Award : 0085940

#### NSF Approved No - Cost Extension

Required Fields are preceded by an asterisk (\*)

Topic Guidance: [GPG](#)

#### ARE YOU SURE?

Clicking "**Forward to SPO**" will **forward this Request** to your Sponsored Projects Office. You cannot modify request once it is **forwarded**.

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**Status:**

Work in Progress

**Expiration Date:** 03/31/2005

**Award Amount:** \$1,545,816.00

**Award Title:** ITR: Information Access to Spoken Documents

**Prepared By:** Picone, Joseph

**Submitted By:**

**\* Revised Expiration Date:** 1/2007

**\* Remaining Funds** \$70,457.80  
(in Whole dollar amount):

**\* Justification:** The original project that was proposed included a much larger budget. As with many ITR awards at that time, the budget awarded was a fraction (25%) of the requested budget. Further, when the original 3/31/05 no-cost extension ran out, I was under the impression the MS State component of this project had been expended by 12/31/04. Had I known there was such a large surplus, I could have assigned more students to the project.

**\* Plan for use of unobligated funds** Support Vector Machines (SVMs), one of the technologies pioneered in our ITR project, have now become very popular throughout the community. Relevance Vector Machines (RVMs), a related technology, are not as well known even though we have demonstrated promising results on limited tasks. Though we made significant strides in decreasing the computational requirements of both SVMs and RVMs, we did not achieve the level of speedups we had hoped. With this extension, we would continue our work on faster training techniques for these two approaches. This would allow us to apply these techniques to rescoring of LVCSR experiments, and

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potentially create greater acceptance throughout the community. We would augment our well-known public domain speech recognition tools with these new training techniques, and provide turnkey on-line tutorials that demonstrate how to use these new approaches. We would also publish these results at leading conferences. In the past year we have learned of several new techniques for linearization of the training problem. We believe making the larger community aware of these techniques in the context of speech recognition systems would be valuable. This extension would be used to fund a domestic graduate student starting in Spring'06 who worked on this project as an undergraduate. We would also fund more undergraduates since we have always welcomed the opportunity to involve undergraduates in such research. One additional graduate student who worked on the project and who is doing his thesis in this area would also be funded.

**\* Explanation for late request:** I discovered last week that there was a surplus in this account. Our university accounting system apparently discovered this after the 3/31/05 deadline for the first NCE.

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