# **Triplet Judgments using Mechanical Turk**

Praveen Chandar, University of Delaware

### 1. INTRODUCTION

The various steps involved are as follows:

- Document Pooling
- Generate and Sample triplets
- Create HITs
- Set Qualifications
- Submit HITs

#### 2. DOCUMENT POOLING

The *evalIR* package has a function to pool documents at a specified depth given a list of runs in TREC format.

```
library(evalIR, quietly=T)
library(plyr)
trec09 <- list.files(path='../demo/data/diversity/trec2009', full.names=T)</pre>
trec09_runids <- basename(trec09)</pre>
pooling_depth = 5
runs <- read.runs(runPaths= trec09,</pre>
                  runids= trec09_runids,
                  limit= pooling_depth)
topK_pooling <- function(x, pooling_depth=5){</pre>
  pooled_docs <- pooling.topk(runs$getRankMatrix(x$query), pooling_depth)</pre>
 return(data.frame(docID=names(pooled_docs)))
pooled_docs <- adply(data.frame(query=runs$getQueries()), 1, topK_pooling)</pre>
head(pooled_docs, n=5)
## query
## 1 1 clueweb09-en0001-02-21652
## 2
       1 clueweb09-en0010-57-32918
## 3
       1 clueweb09-en0010-79-02218
## 4
        1 clueweb09-en0010-93-11767
       1 clueweb09-en0025-89-06994
## 5
```

# 3. GENERATE AND SAMPLE TRIPLETS

2 Praveen Chandar

## 4. CREATE HITS

MTurkR can be used to automatically submit jobs from R to Amazon Mechanical Turk.