1000-films project

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Towards a Learning Film Emotion Profile System...

Typical Viewer Emotions

Verbal responses
Facial expressions

Emotion profiles
Linked to Film titles
Scenes!
Emotional expressions
Facial
Verbal

Title
Emotion Words
Expressions

Updates
Discourses on New Films
User Generated Expressions
Data collection

• Select movie titles from IMDB of the interested genres with
  – ratings over 6.5
  – many reviews

• User Reviews for each movie are crawled and stored into a database
Crawling Tool

MovieCrawler

Application config
- Mode: Write text file
- From file: movie id
- Movie's name file: C:\Crawler\index.txt
- Move's ID file: C:\Crawler\id.txt
- Output directory: C:\Crawler\Data
- Log directory: C:\Crawler\Logs

SQL Server Authentication
- Server name: DREAMLANDS
- Database: IMDbData
- Account: sa
- Password: ********

Crawler Process

Min threads: 1
Max threads: 4
Concurrency limit: 20
Total items: 0

Message:

- Created
- Scheduled: 0
- Running: 0
- Completed: 0
- Queued: 0
- Failing: 0

Pause  Resume  Close
Annotation tool

• 3-level annotation
  – Level 1: Basic emotions with grades
  – Level 2: extended annotation
  – Level 3: more fine-grained annotation

• Demos
Facial expressions experiment

• Selection of 7 films based on various criteria (IMdB rating, genre, year, length etc.)
• 44 participants (1 removed)
• 6 participants per film
• 3 participants per session
• A questionnaire was completed after watching the film
Facial expressions results from FaceReader

LMS all PP

- emotion (>0.4) f = 10324
- no emotion f = 497835

98% no emotion
2% emotion
Postfilm Questionnaire

• 31 emotions selected from literature on emotions
• 7 Point Likert Scale (0-6)
• Experiencing certain emotions while watching the film:
  • 0 = not at all
  • 3 = somewhat
  • 6 = extremely
Results Questionnaire

- **American History X (Drama):** anger, sadness, interest, disgust, empathy, suspense, sympathy, aversion, pity, contempt and alarm
- **The Bourne Identity (Action):** interest
- **Earth (Nature Documentary):** no scores above 4
- **Little Miss Sunshine (Comedy):** happy, surprise, interest, pleasure, sympathy, relaxed, enthusiasm and amusement
Results Questionnaire

• **Saw (Horror):** interest and suspense
• **Se7en (Thriller):** fear, surprise, interest, disgust, empathy, suspense, aversion, pity, contempt, disbelief and alarm
• **The Notebook (Romance):** happy, interest, pleasure, empathy, sympathy, relaxed, amusement, relief and compassion