

Experiments in Personal Television

Jack Lang
University of Cambridge
Interactive Digital Television Ltd

Jack@Lang.net

Problem and Solution Approach

- **Traditional searches don't work for TV**
 - Assumes active viewer; TV is a passive medium
 - “Show me a John Wayne Western”
 - Selection of a few, familiar channels by editorial voice
 - Disenfranchises other broadcasters
 - Hundreds of channels; tens of thousands of events
 - Getting worse with internet and digital media
 - 83 minutes to surf 500 channels
- **Personal Agent Search Technology**
 - Virtual Personal Channel
 - TV just for you

Demonstrator Screenshots

- Feature extraction by keyword search on EPG description, Movie database, closed captions, etc
- Bayesian combination of preferences and profile
- Dynamic best-fit Scheduling
- Template based scheduling
- Limited Time-slip used to maximise fit to schedule
- Download editorial choices or schedule

User Profile Screen



Channel Screen



Single Channel View



Example Multi-Channel View



Collaborators Requested

- Information sources
- Content owners
- Users
- Telcos
- OEMs

Jack@Lang.net

Jack Lang
Computer Laboratory
University of Cambridge

Michael Carter
eFactory Ltd
Interactive Digital Television Ltd