# Table of Contents

uxTV'08 Organization........................................................................................................vii

Session 1: TV Viewer Studies

- **Practical Issues in Subjective Video Quality Evaluation:** Human Factors vs. Psychophysical image quality evaluation..................1
  Marc Sullivan, James Pratt (AT&T Laboratories), Philip Kortum (Rice University)

- **Best Practices for Eye Tracking of Television and Video User Experiences** ...............................................................5
  Noor F. Ali-Hasan, Elizabeth J. Harrington, Joel B. Richman (Microsoft)

- **How Text and Audio Chat Change the Online Video Experience** .................................................................9
  Justin D. Weisz, Sara Kiesler (Carnegie Mellon University)

- **"My TV is the family Oven/Toaster/Grill": Personalizing TV for the Indian Audience** ........................................19
  Nimmi Rangaswamy, Sumitra Nair, Kentaro Toyama (Microsoft Research India)

- **iEPG: An Ego-Centric Electronic Program Guide and Recommendation Interface** ...............................................23
  Chris Harrison (Carnegie Mellon University), Brian Amento, Larry Stead (AT&T Research Laboratories)

- **Making Digital TV Easier For Less-Technically-Inclined People** ..........................................................27
  Michael J. Daniels (Microsoft)

- **Tag-Based Information Retrieval of Video Content** ..............................................................................31
  Mark Melehnhorst, Marjan Grootveld, Mark van Setten, Mettina Veenstra (Telematica Instituut)

Session 2: iTV Design Approaches

- **Mu: Channel UI to Optimize the Widget Control in Internet TV** ..........................................................41
  Seungchul Shin, Jinho Yim, Sangkon (Scott) Song (Samsung Electronics)

- **Creating Augmented and Immersive Television Experiences Using a Semantic Framework** ..................................................45
  Sergio Goldenberg (Georgia Institute of Technology)

- **Innovation for Inclusive Design: An Approach to Exploring the iDTV Design Space** ......................................49
  Mark V. Springett (Middlesex University), Richard N. Griffiths (University of Brighton)

- **Entertaining iTV Applications for Local Communities** ............................................................................59
  Gunther Kreuzberger (Ilmenau Technical University), Imke Hoppe, Peter Dunker (Fraunhofer Institute for Digital Media Technologies)

- **Modeling Emotional Context From Latent Semantics** ...........................................................................63
  Michael Kai Petersen, Andrius Butkus (Technical University of Denmark)

Session 3: Social Aspects of TV

- **SMS-Based Human-Hosted Interactive TV in Finland** ........................................................................67
  Pauliina Tuomi (University of Turku)

- **The Implications of Program Genres for the Design of Social Television Systems** .............................................71
  David Geerts (IBBT/K.U.Leuven), Pablo Cesar, Dick Buterman (Centrum voor Wiskunde en Informatica)

- **Social TV: Introducing Virtual Socialization in the TV Experience** ..........................................................81
  Evangelia Mantzari (Athens University of Economics and Business),
  George Lekakos (University of the Aegean),
  Adam Vrechopoulos (Athens University of Economics and Business)

- **CollaboraTV: Making Television Viewing Social Again** ........................................................................85
  Mukesh Nathan (University of Minnesota), Chris Harrison (Carnegie Mellon University),
  Svetlana Yarosh (Georgia Institute of Technology), Loren Terveen (University of Minnesota),
  Larry Stead, Brian Amento (AT&T Research Laboratories)
Session 4: Designing iTV Features

- Google TV Search: Dual-Wielding Search and Discovery in a Large-Scale Product ............................... 95
  Manish Patel, Rich Gossweiler, Mehran Sahami, John Blackburn, David Brown, Andrea Knight (Google)

- Balancing the Power of Multimedia Information Retrieval and Usability in Designing Interactive TV ................................................................. 105
  Hyowon Lee, Paul Ferguson, Cathal Gurrin, Alan F. Smooton, Noel E. O'Connor (Dublin City University), Heeseon Park (Samsung Electronics)

- Producing Collaborative Video: Developing an Interactive User Experience for Mobile TV ......................................................... 115
  Arvid Engstrom, Mattias Ebbjornsson, Oskar Juhlin (Interactive Institute), Mark Perry (Brunel University)

Session 5: Reviews and Theories of iTV

- Interactivity and User Participation in the Television Lifecycle: Creating, Sharing, and Controlling Content ....................................................... 125
  Pablo Cesar (Centrum voor Wiskunde en Informatica), Konstantinos Chorianopoulos (Ionian University)

- The Concept of Interactivity — Revisited: Four new typologies for a new media landscape .................................................. 129
  Jens P. Jensen (Aalborg University)

- The Interactive Television User Experience So Far ................................................................. 133
  William Cooper (Informitv)

- Attributes Underlying Involvement with Video Material .................................................. 143
  Nele Van den Ende, Dragan Sekulovski, Jette Hoonhout (Philips Research), Lydia Meesters (Eindhoven University of Technology)

- A Map of the Television Experience ................................................................. 147
  Maurice Joseph McGinley (Murdoch University)

Session 6: iTV Design

- A Questionnaire-Based Study on Delayed Reciprocity in a P2P-TV System .................................................. 151
  Jenneke E. Fokker (Delft University of Technology), Piet H. Westendorp (Delft University of Technology and Eindhoven University of Technology), Johan A. Pouwelse, Huib de Rijder (Delft University of Technology)

- Absolute Pointing and Tracking based Remote Control for Interactive User Experience .................................................. 155
  John Sweetser, Anders Grunnet-Jepsen, Gopal Panchanathan (ThinkOptics, Inc)

- Network Analysis of Massively Collaborative Creation of Multimedia Contents — Case Study of Hatsune Miku videos on Nico Nico Douga .................................................. 165
  Masahiro Hamatsuki (National Institute of AIST / JST, CREST), Hideaki Takeda (National Institute of Informatics), Takuichi Nishimura (National Institute of AIST / JST, CREST)

- One-Handed Mobile Video Browsing ................................................................. 169
  Wolfgang Hürst (Utrecht University), Philipp Merkle (Albert-Ludwigs University)

- iTV Project: An Authoring Tool for MHP and Ginga-J based on a Web Environment .................................................. 179
  Marcos R. M. Oliveira, Carlos B. P. Filho, Anderson F. R. Silva (Intacto Systems Engineering)

- Designing for User Experience: What to Expect from Mobile 3D TV and Video? .................................................. 183
  Satu Junikko-Pykkäät, Mandy Weitzel (Tampere University of Technology), Dominik Strohmeier (Technical University of Ilmenau)

- Grasping Product Pragmatics: A Case with Internet on TV .................................................. 193
  Aylin Koca, Mathias Funk, Evangelos Karapanos, Anne Rozinat (Eindhoven University of Technology), Nico van der Gaarden (Philips Consumer Lifestyle)

Author Index