Fachgebiet Audiokommunikation

Audio communication group



International Conference "Mediatized Worlds: Culture and Society in a Media Age" University of Bremen, Haus der Wissenschaft, Germany (April 14th-15th, 2011)

A Mixed Methods Approach to Questions Concerning the Mediatization of Musical Experience

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Research Framework

- Institutional Context and Research Project:
 - Audio Communication Group @ TU Berlin
 - LoE-Cluster of Excellence Project 318: "Medium and Emotion":

"In which ways did/do the various forms of technological mediation transform the <u>experience of emotions while listening to music</u>?

- "Until the development of the radio and the gramophone, people only heard music when they played it themselves or when they heard other people playing it." (Clarke, 2007: 47)
- "The transition from artisanal to industrial production transforms not only the technology of distribution but also that which is distributed." (Adorno 1927/1990: 48)

Meta-Theoretical Background:

- Medium Theory (McLuhan 1964, Meyrowitz 2008)
- Affordance Theory (Hutchby 2001, Zilien 2008)
- Mediatization Theory (Krotz 2001, Hjarvard 2008)
- Newer Approaches to Media Dispositif Analysis (Zajc 1999, Bührmann & Schneider 2008)



Research Questions and Methodological Approach

Presented analysis was by-product of the recruitment process for main study

Exploratory Research Questions:

- Are their distinct usage patterns of technological appliances for listening to music
- How are these patterns socially distributed (age, sex, education, etc..)?
- What is the psychosocial / biographical meaning of these patterns?
- Do certain patterns tend to evoke different affective experiences than others?

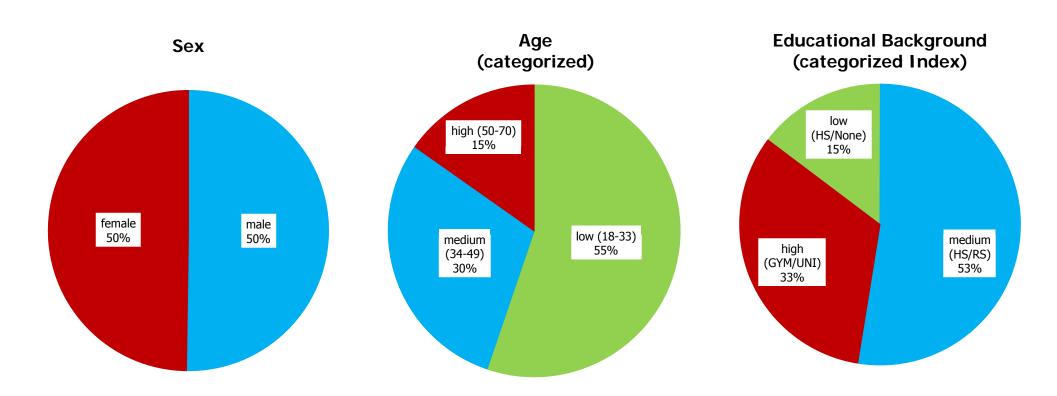
Methodological Approach:

- Critical Realist Media Research (Schrøder et al. 2003, Lepa 2010)
 - Social constructivist informed, but naturalist ontology
 - Convergent validity by triangulation of complementary methodological perspectives
- Media Repertoire Analysis (Hasebrink & Popp 2006)
 - Identify usage patterns on common level of abstraction (technology, provider, genre, ...)
 - Explain patterns by structural, positional and individual variables
 - Validation & deeper comprehension of regularities by interpretive methods



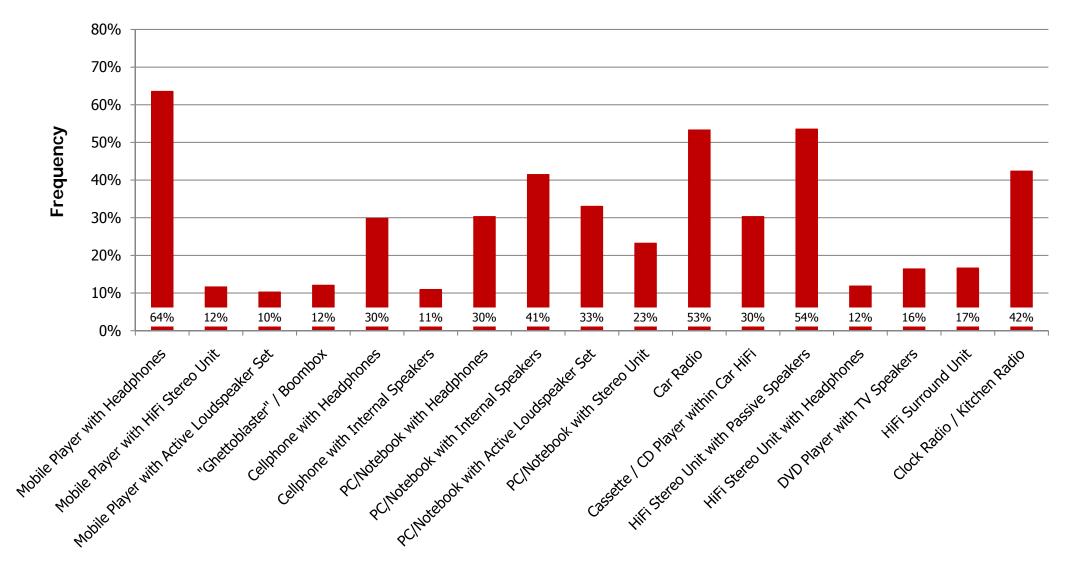
Research Design and Sample Statistics (n=440)

- Initial Aim: Identify potential informants/subjects with contrasting usage patterns of music media
- Convenience Sampling: Newsletters / announcements on social networks / snowball-emails
- Online Survey 6-7'2010: Sociodemogr., Use of Music, Listening Appliances, Musical Preferences
- Typological Analysis of Recruitment Data: No intent (or funds) to represent a specific population
- Narrative Follow-up Interviews (~60 min.): 18 selected informants to corroborate findings





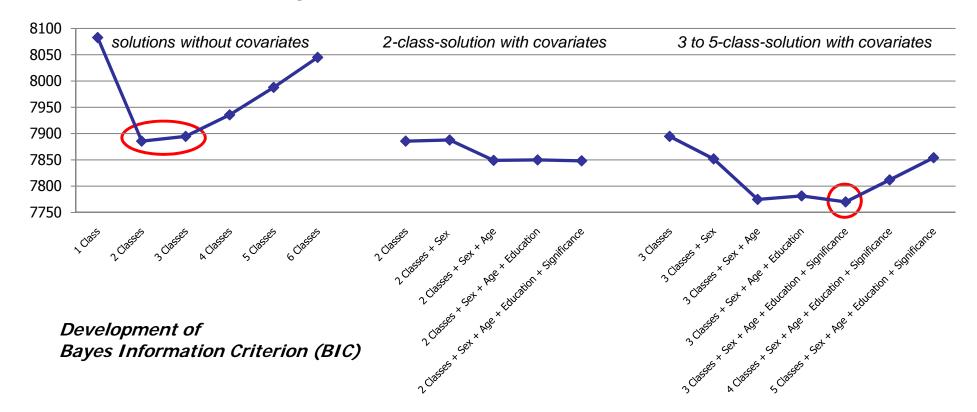
Music Listening Appliances used within last 12 months





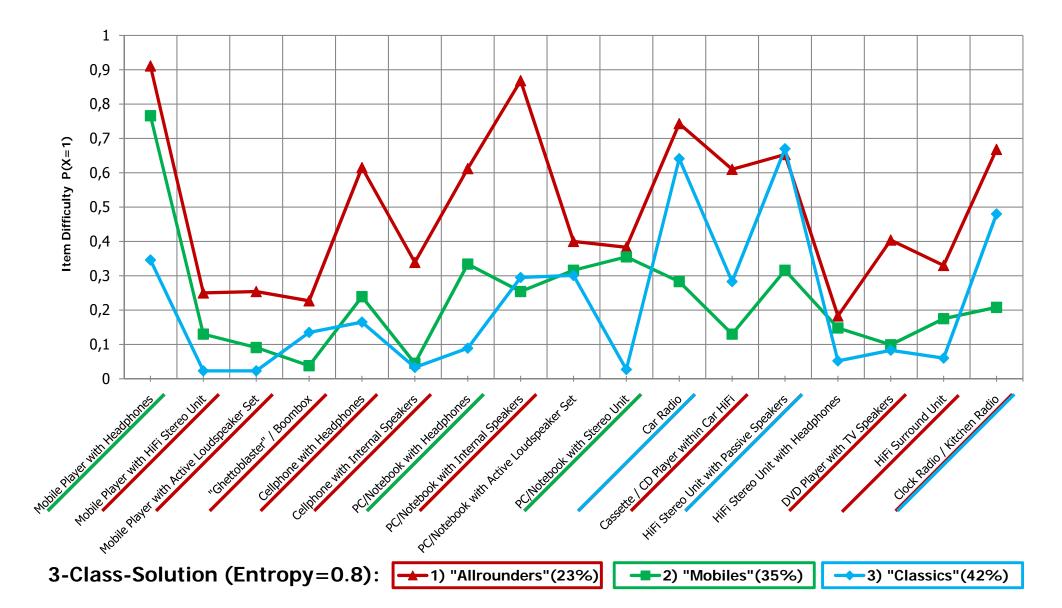
Identification of Latent Usage Patterns

- Latent Class Analysis (LCA) with Coviarates (Finite Mixture Model, MLR-Estimation, n=440)
- 17 Binary Indicators for music listening appliances "used/not used within last 12 months" (Criterion for Indicator Inclusion: Significance of Wald-statistic for at least 1 class threshold)
- **4 Covariates:** "Age", "Sex", "Educational Background", "Significance of Music in Life" (Criterion for variable inclusion: Satorra-Bentler-adjusted LR-Test p<0.05)
- Criterion for **Determining Number of Classes**: Lowest BIC-Value, VLMR-Test p<0.05





Profiles of identified Latent Classes





Deeper Understanding of Identified Usage Patterns

1. Narrative-biographical interviews with typical class members

- 18 Informants with class membership probability coefficients > 0,9
- Approximately 60 minutes lasting, guided narrative-biographical interviews
- Identification of intersubjective similarities by help of Grounded Theory
- focus on technological devices and their psychosocial and affective meaning

2. Retrodiction of class membership by help of the logistic regression part of the model

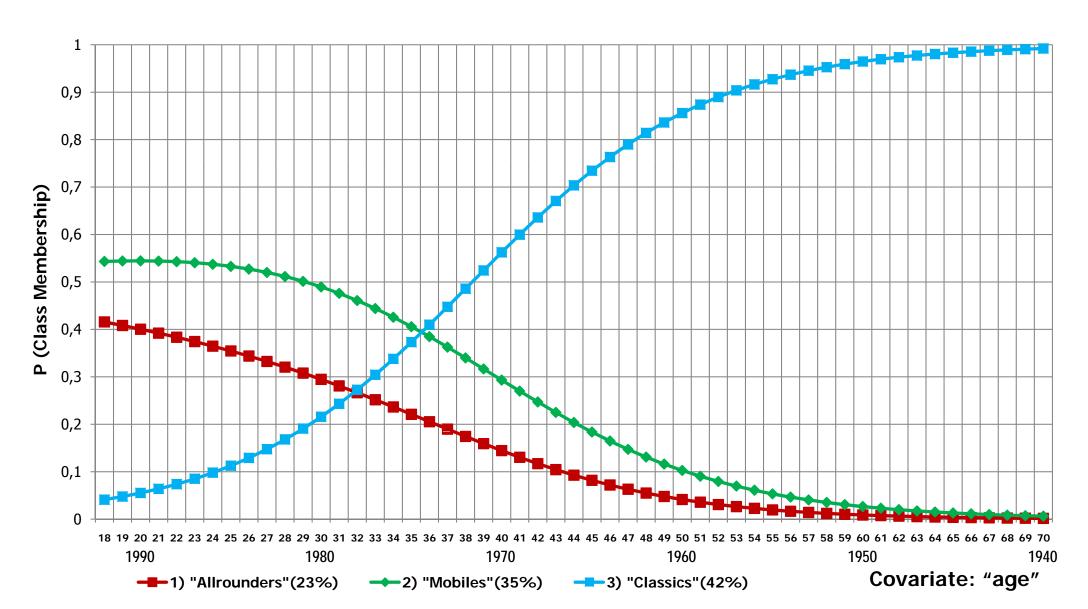
- Nagelkerke's R²=0.6 (sex, age, education, significance of music)
- Low multicollinearity (tolerance for all covariates > 0.9 / condition indices < 20)
- All covariates (S-B-adjusted LR-Test p<0.05) influence on class membership prob.
- All except "Educational Backgr." discriminate (Wald-Test p<0.05) between classes



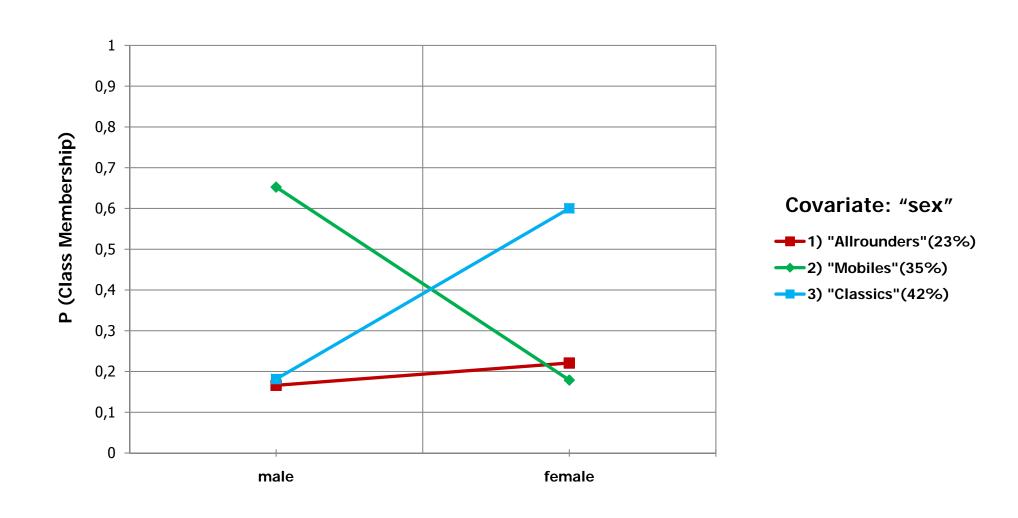
The "Classic" Pattern: (HiFi stereo unit, car radio and kitchen/clock radio)

- Biographical development of device preferences:
 - Early experiences with Radio / Music Box / HiFi stereo unit of parents
 - Own device not until late youth / early adulthood
- Affective affordances of music:
 - Music as affective-bodily resource during other primary activities
 - Music as accompanying affective-symbolic resource
- Rejection of mobile and headphone listening practices
- Smaller content repertoire
- Lesser overall significance of music











The "Mobile" - Pattern: (Mobile player, PC/notebook with headphones or stereo unit)

• Biographical development of device preferences:

- Early possessors of own cassette recorders / mobile players
- Rejection of 'holiness' of family appliance
- Members of cassette / CD burning / filesharing community

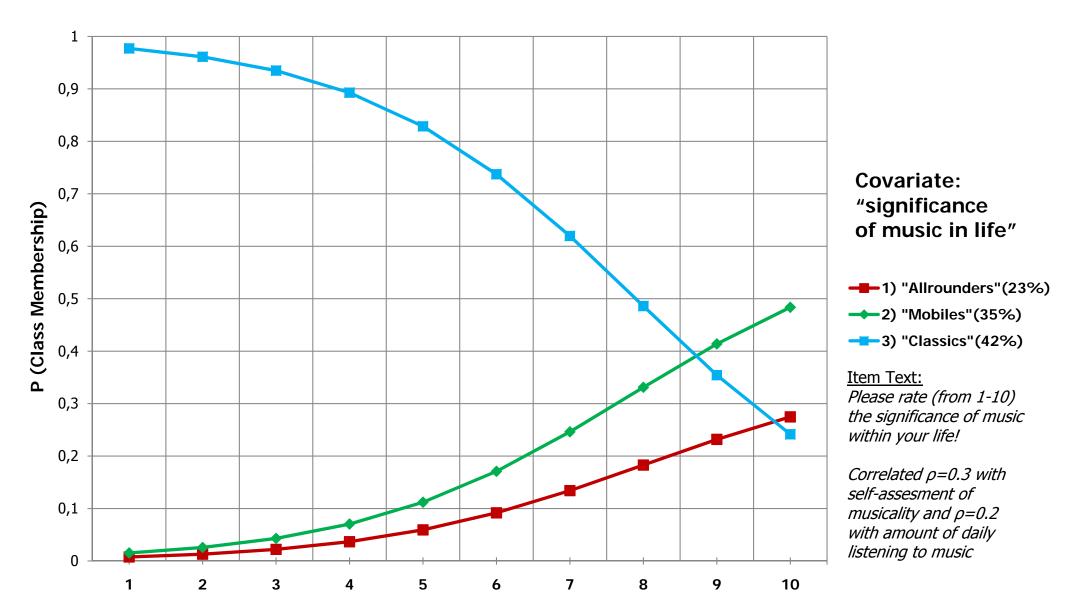
Affective affordances of music:

- Music as affective-bodily ressource and ("indispensible") primary activity
- Music as accompanying affective-symbolic ressource (similar to "Classics")

Functional divide of technology use:

- Headphones preferred for solipsistic listening
- Speakers used when listening with others







The "Allrounder"-Pattern: (all, esp. cellphone/notebook spk./ DVD+TV)

Biographical development of device preferences:

- Early experiences with HiFi stereo unit of parents (but no sanctuary)
- Early possessors of own cassette recorders / mobile players / PC
- Diverse heterogenous experiences

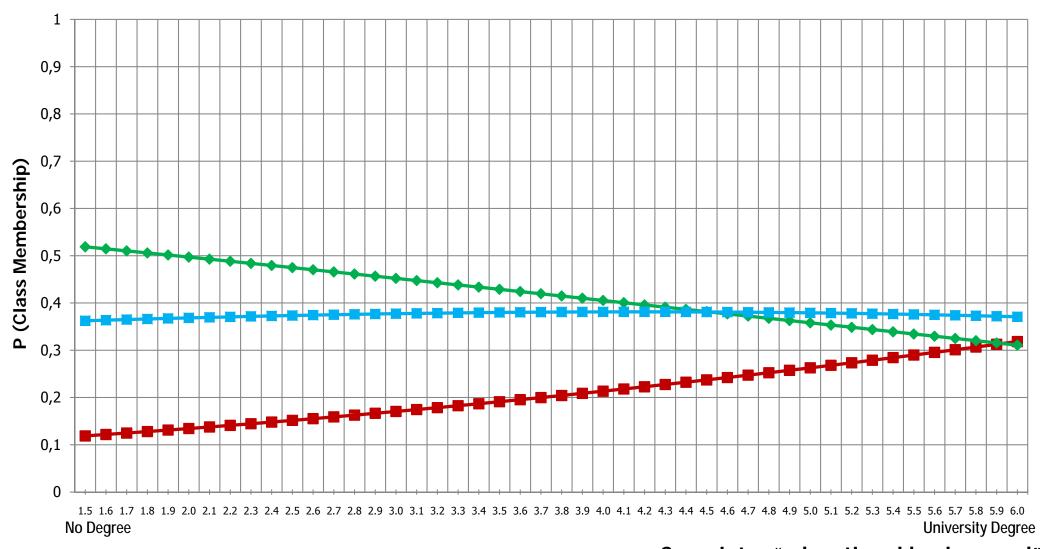
Affective affordances of music:

- As described by "Mobiles" and "Classics"
- emphasis on feeling a "musical" identity

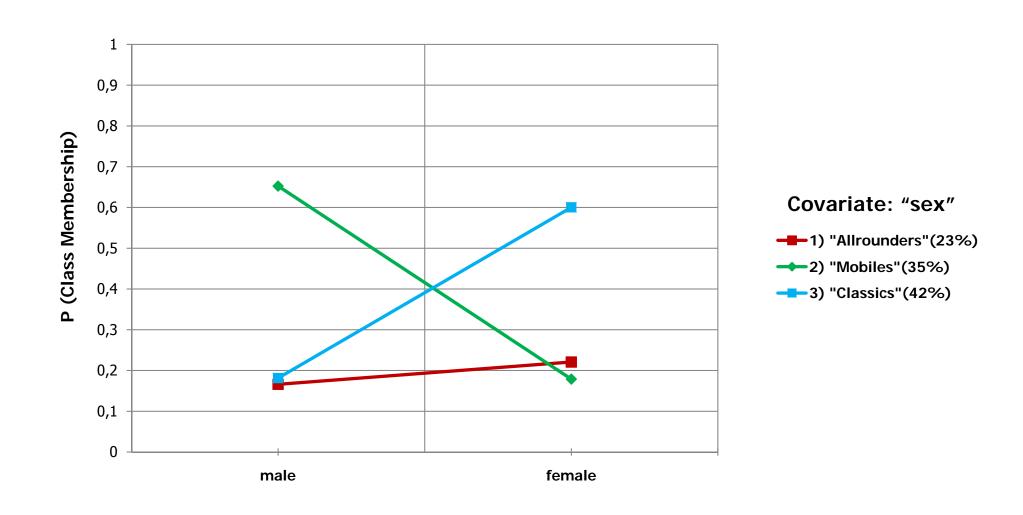
Stressing the different qualities of different appliances:

- Audio quality
- Bodily experience
- Mobility of devices / Shareability of content
- Sociality
- Surplus of AV media
- Nostalgic Memories











Conclusions

 Approach enables "thick" descriptions and deeper understanding of macro-level media repertoire clusters

Mediation perspective:

- Headphone listening technologies seem to afford different emotional qualities than speaker-based listening technologies. But why?
 - → Narrative Media Dispositif Analysis (Lepa & Geimer in press, Lepa in press)
 - → "Blind" experimental laboratory study (conducted at present)

Mediatization perspective:

- While "Classics" resisted technological change as long as possible,
 "Mobiles" quickly embraced new technological developments
- Change in moral economy of the family (Silverstone 2006: 238)?
- "Allrounder"-pattern still somewhat mysterious

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Thank you for your patience!