Institut für Telekooperation





Research Areas

Distributed & Mobile Computing

grid computing internet computing wireless networks

sensor networks

ubiquitous web applications

agent-based computing
mobile computing
mobile multimedia
mobile communication

Media & Interaction

intelligent systems customization

personalization

multimedia

cooperation

coordination

non-standard HCI

interaction

mobile information management

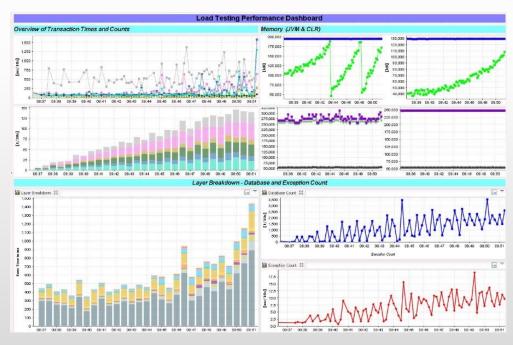
Model driven engineering Performance evaluation
Conceptual modeling Simulation
Semantic modeling Usability

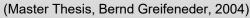
Modelling & Evaluation



Performance Evaluation

■ Performance Load Testing



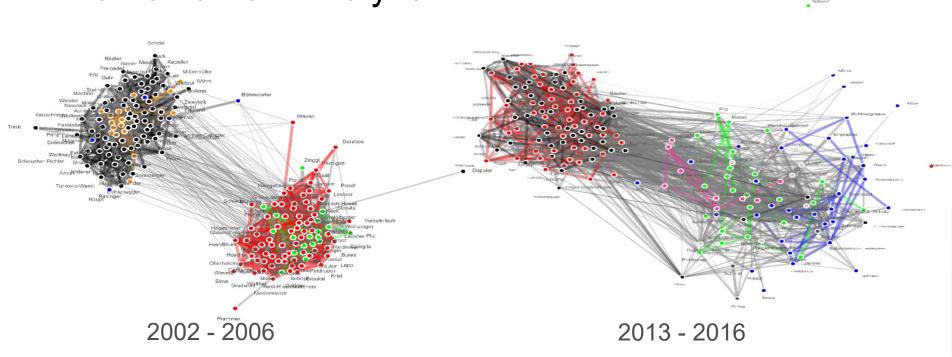






Community Modelling

■ The Parliament Analyzer



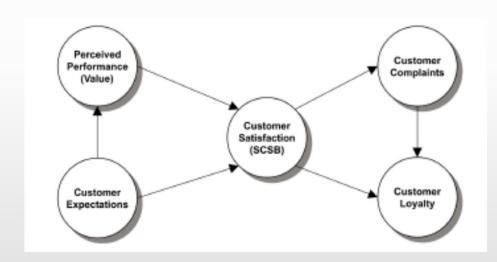
(Bachelor Thesis, Markus Hiesmair)

Matthias Steinbauer, Markus Hiesmair, Gabriele Anderst-Kotsis: Making Computers Understand Coalition and Opposition in Parliamentary Democracy. EGOV 2016: 265-276



Community Modelling

Evaluating Customer Satisfaction Using Behavioral Analytics of Data-Intensive Software Systems



[Fornell 1992]

find the influential drivers of customer satisfaction

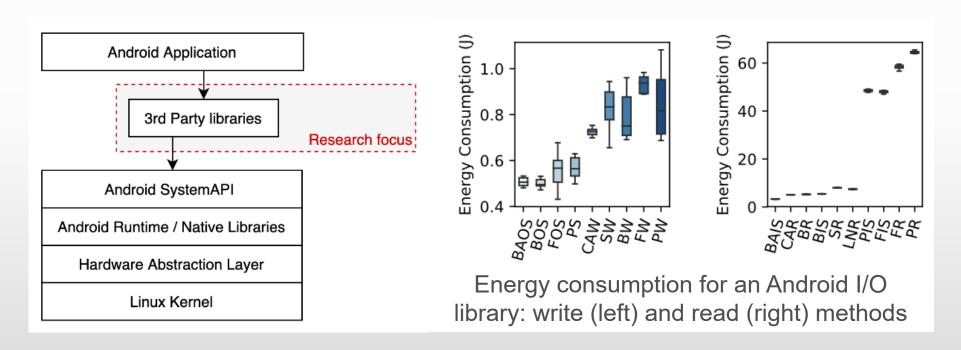
- Hypothesis driven (statistical) tests confirmed a positive correlation among technical service quality and duration of service usage
- Data driven (machine learning)
 methods wer able to distinguish
 satisfied and dissatisfied customers at
 a precision of 70-80%

Gabriele Anderst-Kotsis, Jürgen Ratzenböck: Evaluating Customer Satisfaction: Using Behavioral Analytics of Data-Intensive Software Systems. iiWAS 2018



Mobile Computing

■ Energy Consumption of Mobile Devices



Andreas Schuler, Gabriele Anderst-Kotsis: Characterizing Energy Consumption of Third-Party API Libraries using API Utilization Profiles. ESEM 2020: 8:1-8:11



Thesis Topics



- **Design research** on artefacts for communication, collaboration, and coordination
- Feasibility studies on mobile technologies in application domains including Arts, Medicine, or Education
- Prototypical development and evaluation of humans and robots (drones) teaming scenarios
- Performance evaluation studies of distributed and mobile systems, Web-Architectures, ad-hoc networks, ...
- **.** . . .

