Human Computer Interaction

NIMEs (focus on instrument design)

Anna Xambó

Department of Music, NTNU

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Learning Outcomes

— Understand the role of a *digital lutherie* or a designer of NIMEs.

— Explore the key elements of NIME instrument design from an HCI perspective (design & evaluation).

— Discern different categories of NIMEs from an HCI design perspective.

— Be able to create diagrams of self-built NIMEs by reversed engineering methods (learning from existing diagrams).

Class Structure

— 10.15-10.40 Speedy presentations of the short bios.
— 10.40-11.00 Presentation/lecture about instrument design in NIME from an HCI perspective (design & evaluation) + Q&A.
— 11.00-11.30 Team work: Classification and representation of NIMEs.
— 11.30-11.50 The teams summarize to the group the results of the team work activity (10 min per group).
— 11.50-12.00 Wrap up & Closing

Preparation: Short Bio

— Write a short bio (125 words +/- 10 words) of your hero in music technology. More info can be found on the assignment's page Day 4 Individual Assignment (`https://uio.instructure.com/courses/11472/assignments/13452`). Once we discuss all the bios in class, we could publish them as one blog post on the MCT blog!

Speedy Presentations: Short Bios

Presentation/lecture: NIME (instrument design)

— Presentation/lecture of a selection of concepts in NIME's
instrument design from an HCI perspective + Q&A.

Team work: Classification and representation of NIMEs

— Selection of a paper from the NIME Reader
(`https://www.springer.com/gp/book/9783319472133`) where a
NIME is presented. PDFs can be found in NIME Proceedings
(`http://www.nime.org/archives/`). Discussion about ...

  • what is the type of instrument design presented?
  • how is the instrument design presented in the paper: diagrams?
    photographs? block diagrams? mindmaps?

Team work: Summaries

— The teams summarize to the group their selected paper / NIME
  (10 min per group).
  - what is the type of instrument design presented?
  - how is the instrument design presented in the paper: diagrams?
    photographs? block diagrams? mindmaps?

Wrap up & Closing

— From today's examples... how will you represent differently your self-built prototype?
— Anonymized reviews from the jury members.
— Drop-in hours under request during the week 5-9 November, 2018.
— Next WoNoMute: Monday 26 October 2018 14.00–15.00
— Next Spring: Audio Programming with Web Audio (elective)

Resources

— The content of this class can be found on Canvas here:
`https://uio.instructure.com/courses/11472/pages/`
`human-computer-interaction-2b`

— The slides of this class can be found on GitHub here:
`https://github.com/axambo/hci-lecture-slides/tree/`
`master/slides/d4/`

— Archive of NIME Proceedings:
`http://www.nime.org/archives/`