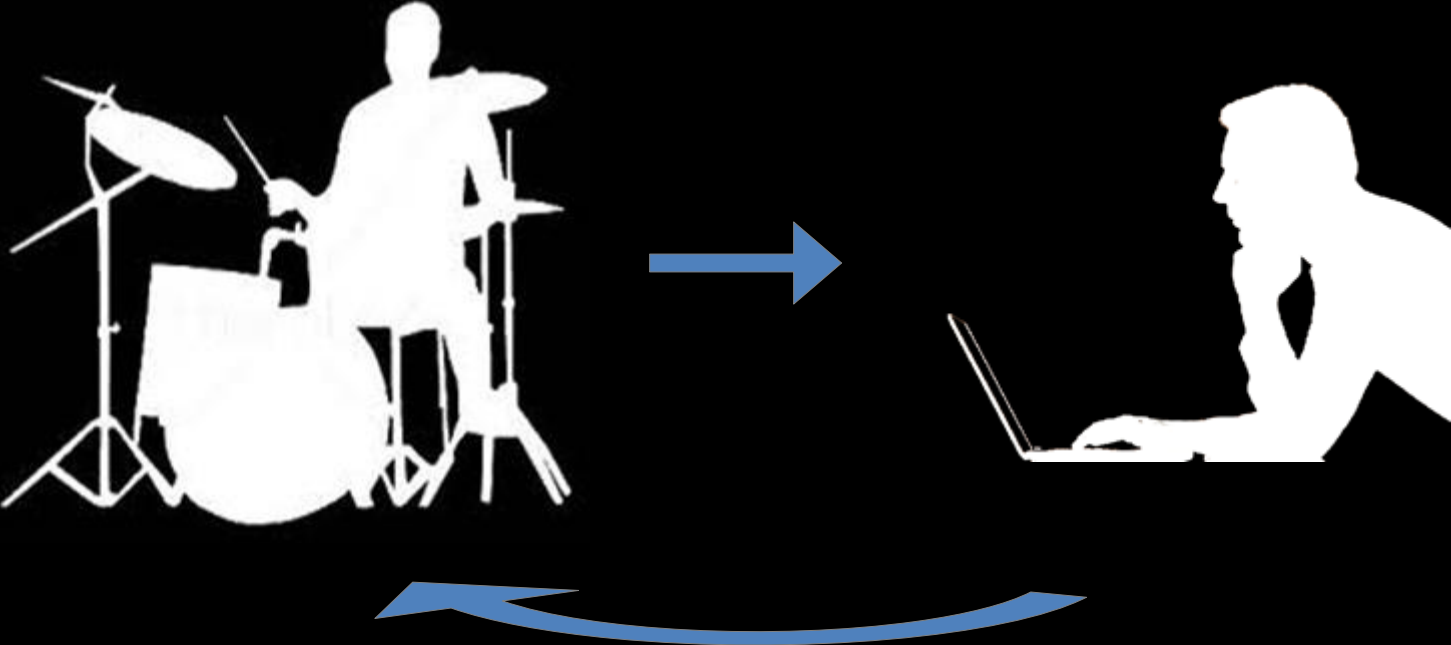
A photograph of a live performance on stage. The scene is dark, with several bright spotlights illuminating the musicians. The musicians are silhouetted against the light. In the foreground, the silhouettes of the audience's heads are visible. The text is overlaid on the image in a white, sans-serif font.

Creative use of
Cross-adaptive effects
for live performance

Workshop outline

- Current research
on creative use of cross-adaptive techniques at NTNU
- Technical setup
in standard DAW
- Practical demonstrations

Live processing

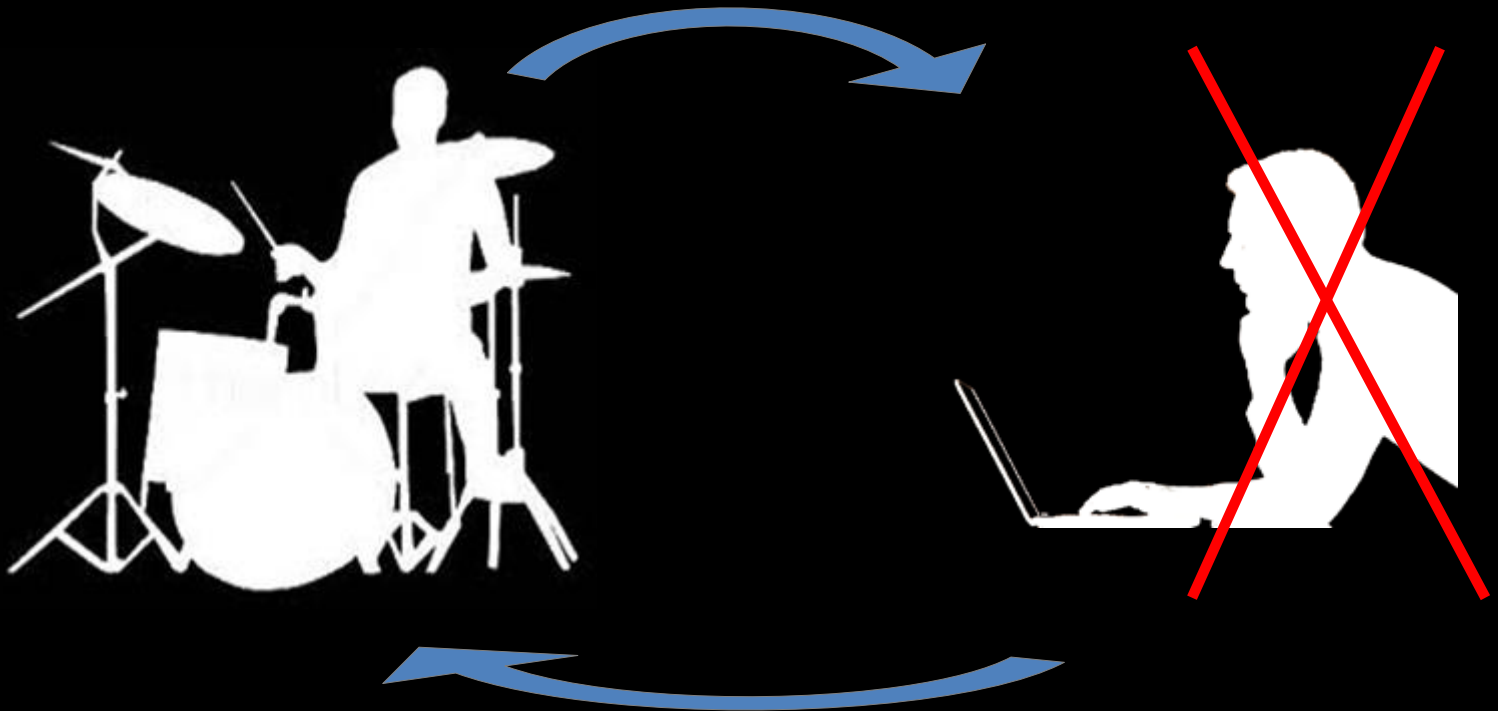


 CH/Ø

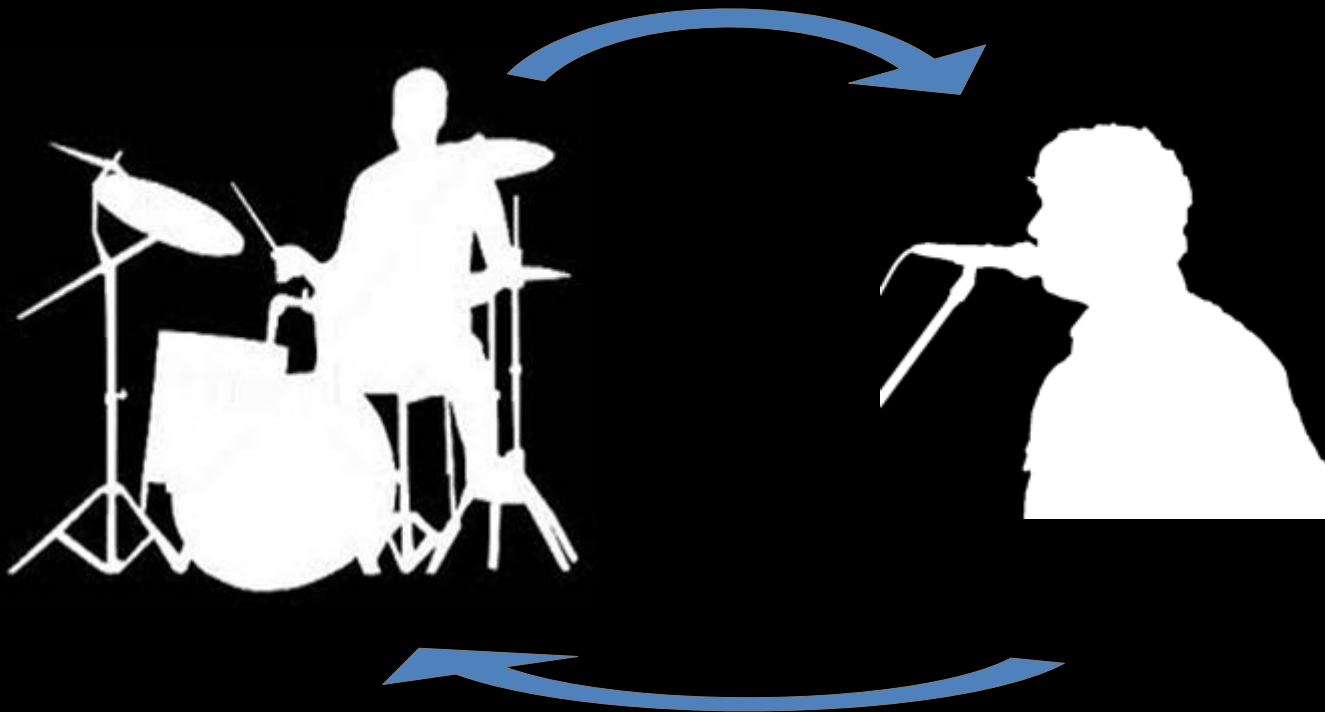
 T-EMP

 KANON

Adaptive processing



Cross-adaptive processing



S. Fasciani

L. Myhre et.al

J. Reiss et.al

M. Stabile

intelligent Audio Switch Box



B. De Man et. al.

<-DEBUG>

class raw: 0	frame size: 1024
class EMA: 0	sample rate: 96000
Smtt Flag: 1	frame counter: 761
alpha: 1.9287...	

A >

B >

Train A Train B Finish

SemanticAudio Reverb

View: Editor

Save Load

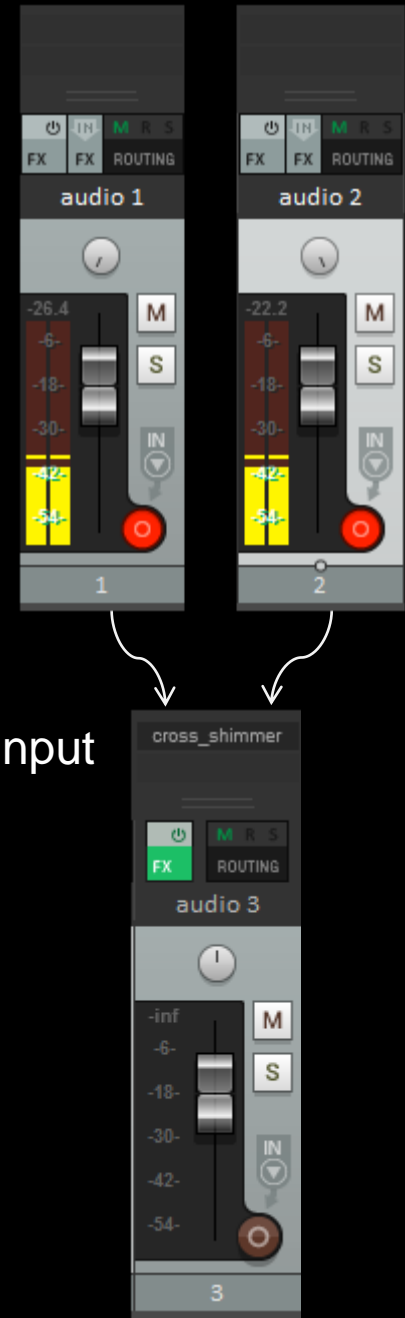
SAFEReverb

Integration in a DAW

Sidechaining

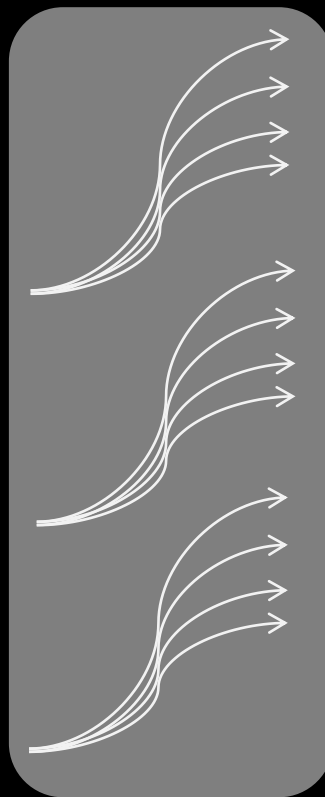


Dual mono input

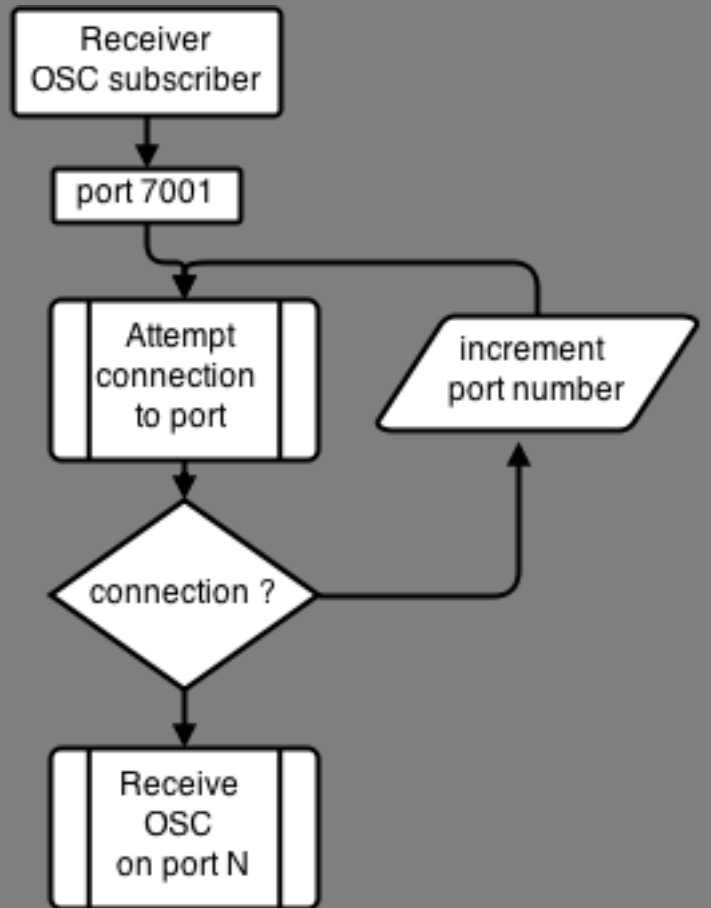
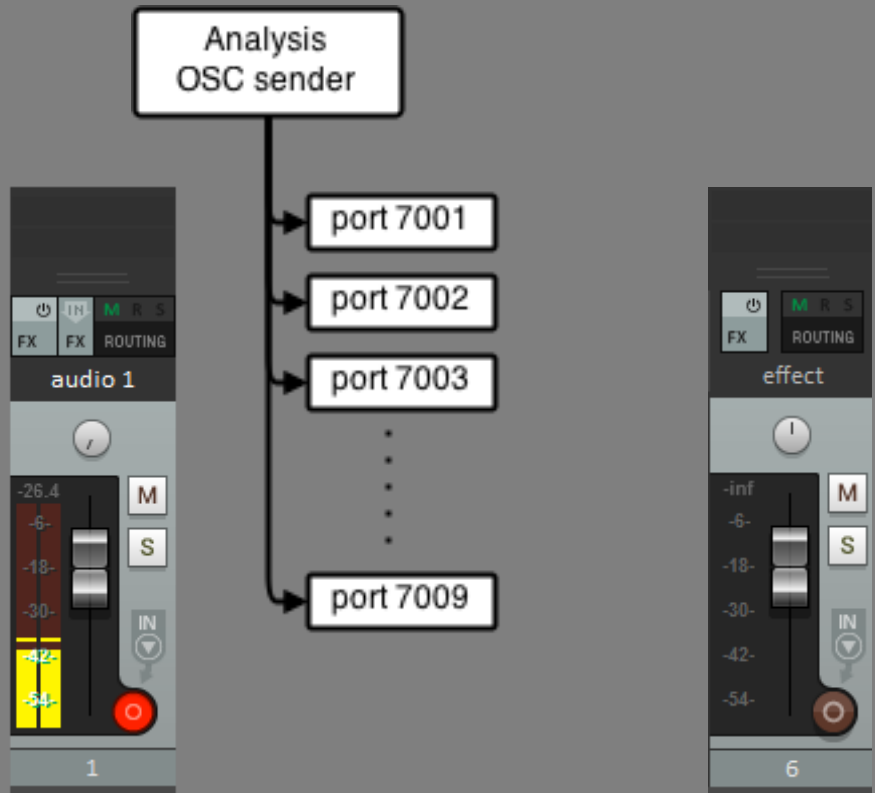


More flexible routing and mixing

Many inputs to any effect



Control signal routing layer (OSC)



audio 1

FX ROUTING

M S

-26.4
-6-
-18-
-30-
-42-
-54-

1

Analyzer

Options

channel 1

enableDisplay

pitch track method ptrack

Noisefloor pFilterSize

pre emphasis for amp trans

LoDamp x_Fq HiBoost

transients

amp

centroid

kurtosis

pitch

Thresh DecThresh DecTime DbLimit

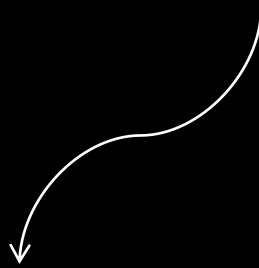
Thresh DecThresh DecTime DbLimit

Thresh DecThresh DecTime DbLimit

Thresh DecThresh DecTime DbLimit

amp transient density 0.1

centr transient density 0.5



Norm

cps 1 0.2 0.9

flux 1 0.01 0.5

source chan rise/fall scale curve offset Freq

effect

M S

FX ROUTING

-inf
-6-
-18-
-30-
-42-
-54-

6

<https://github.com/Oeyvind/interprocessing>

A photograph of a live performance on a stage. The scene is dimly lit, with several bright spotlights illuminating the performers. The performers are mostly in silhouette, with some light catching their forms. In the foreground, the silhouettes of the audience's heads are visible, looking towards the stage. The overall atmosphere is that of a concert or live show.

Creative use of
Cross-adaptive effects

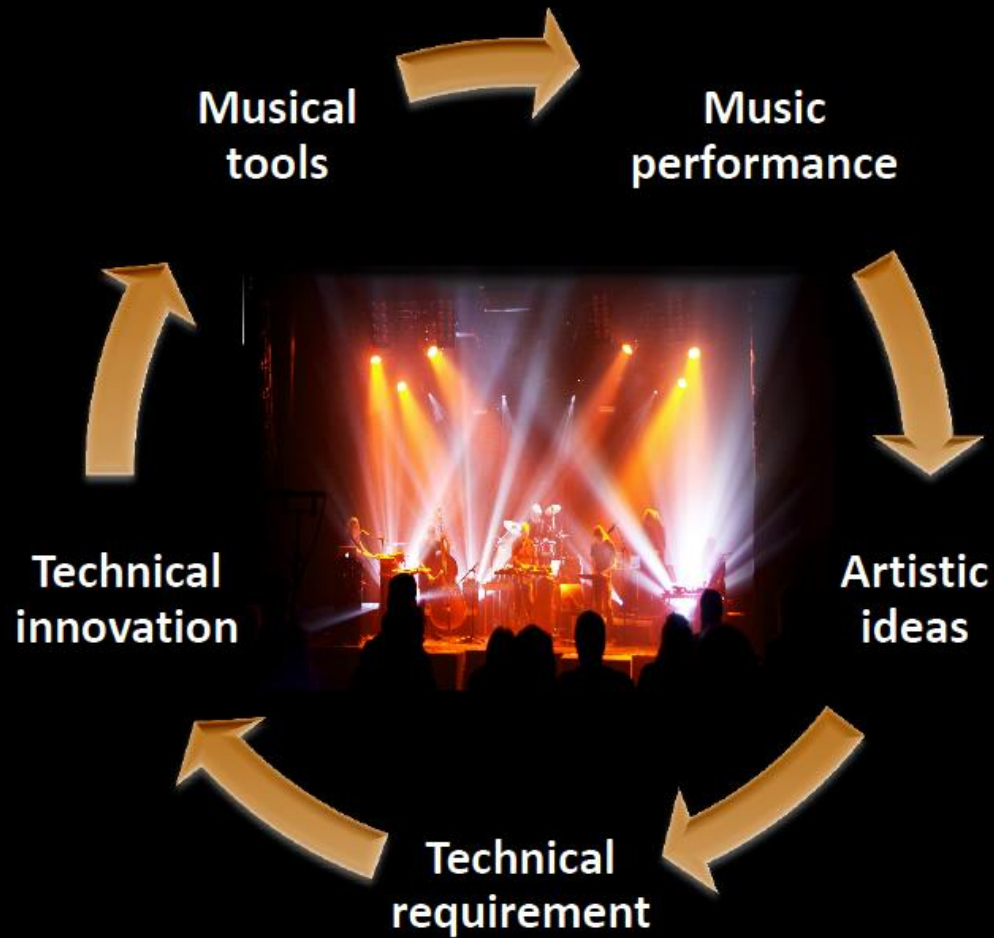
for live performance



UC San Diego



+ Marije Baalman, Maja S.K. Ratkje, Siv Øyunn Kjenstad, Gyrid N. Kaldestad



 NTNU

Kunnskap for en bedre verden