

*symbolic authoring tools*      *generative algorithms*  
*emergent algorithms / swarms*  
*Holo-Edit*      *ICST ambimonitor/ambicontrol*

## **Authoring / Render-Control**

*SpatDIF*      *Virtual sound source positions*  
*Room description*

## **Audio Scene Description**

*DBAP*      *VBAP*      *WFS*  
*ViMiC*      *Ambisonics*

## **DSP / Rendering Layer**

*DIRAC*      *Ambisonic B-Format*      *MPEG Surround*  
*DTS*      *AC3*

## **Encoded Audio Stream**

*CoreAudio*      *Jack*      *Port Audio*  
*ALSA*      *OSS*

## **Decoded Audio Stream**

*Computers*      *Sound cards*      *Loudspeakers*  
*Touchscreens*      *Gestural Controller*

## **Physical Devices**