



**Session :**      **Model-Based Sound Synthesis ( II ) (SPECIAL SESSION)**  
**Time: 16:50 – 18:10**

**Chairs:**

*Cumhur Erkut , Helsinki University of Technology ;  
Vesa Välimäki , Helsinki University of Technology*



**TENSION MODULATED NONLINEAR 2D MODELS FOR DIGITAL SOUND SYNTHESIS WITH THE FUNCTIONAL TRANSFORMATION METHOD ([Abstract](#))**

Stefan Petrausch            (University of Erlangen–Nuremberg, Germany)  
Rudolf Rabenstein        (University of Erlangen–Nuremberg, Germany)



**DIFFUSION MODELLING AT THE BOUNDARY OF A DIGITAL WAVEGUIDE MESH ([Abstract](#))**

Simon Shelley            (University of York, United Kingdom)  
Damian Murphy        (University of York, United Kingdom)

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**ARTIFICIAL REVERBERATION USING A HYPER-DIMENSIONAL FDTD MESH ([Abstract](#))**

Antti Kelloniemi                    (Helsinki University of Technology, Finland)  
Patty Huang                         (Stanford University, United States)  
Vesa Välimäki                      (Helsinki University of Technology, Finland)  
Lauri Savioja                        (Helsinki University of Technology, Finland)



**PARALLEL IMPLEMENTATION OF FINITE DIFFERENCE SCHEMES FOR THE PLATE EQUATION ON A FPGA-BASED MULTI-PROCESSOR ARRAY ([Abstract](#))**

Erdem Motuk                        (Queen's University of Belfast, United Kingdom)  
Roger Woods                        (Queen's University of Belfast, United Kingdom)  
Stefan Bilbao                        (Queen's University of Belfast, United Kingdom)