

AUDIO ENGINEERING SOCIETY

CALL for PAPERS

AES 37th CONFERENCE, 2007

Copenhagen, Denmark

digital power amplifiers



AES International Conference

Dates: August 28-30, 2009
Location: Hillerød, Copenhagen, Denmark
Chair: Jan Abildgaard Pedersen, E-mail: 37th_chair@aes.org

Over the last ten years switched mode power amplifiers, very often called Digital Power Amplifiers, has become the technology of choice in all of the global audio industry. The high efficiency and compact design inherent in the digital power amplifier technology has inspired many to design new and interesting products in existing and new market areas. Everything from the ever expanding portable cell phone / media player market in the milli-watt range to the most powerful public address systems at thousands of watts is covered by digital amplification technology.

This conference will present an overview of the current state-of-the-art in a broad perspective and address many of the new scientific disciplines involved in this still growing field. Digital Power Amplification is in many ways a combination of mixing otherwise complementary scientific fields as power electronics, signal processing, DSP, advanced analogue design, EMC and more. The objective of the conference is to address this complex and challenging area of disciplines.

PROPOSED PAPER TOPICS

1. Methods and Topologies.

Architectures.
Modulation methods
Control/protection systems design
Power stage topologies and implementation
Modeling and optimization.

2. Testing and evaluation

Audio quality
Efficiency
Audio measurements and test methods

3. Integration perspectives

IC integration, design, simulation, verification
Packaging
Thermal management

Protection
EMI/EMC

4. System integration

Power supplies
Power management
Transducers
Signal processing

5. Applications and future trends

Benefits / value propositions in different audio markets
Mobile phones, hearing aids,
HiFi and CarFi

6. Emerging technologies and applications

Massively multi-channel designs for array- and wavefield-synthesis speaker systems

SUBMISSION SCHEDULE

- **2009 January 5th** Author's Website opens at http://www.aes.org/37th_authors. **Note:** Please open an account here as early as possible, so that the organizing committee can monitor interest in real time.
- **2009 April 1st** Submission deadline, full paper submission required, 4-10 pages. Guidelines are available at http://www.aes.org/journal/con_infoauth.html
- **2009 May 18th** Authors are informed by e-mail about paper acceptance or requests for revision.
- **2009 July 1st** Revised paper submission deadline.

PAPERS CHAIRMAN

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