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Automatic Gain Control: Techniques and Architectures for ...

Automatic Gain Control: Techniques and Architectures for RF Receivers. This book analyzes automatic gain control (AGC) loop circuits and demonstrates AGC solutions in the environment of wireless receivers, mainly in wireless receivers with stringent constraints in settling-time and wide dynamic range, such as WLAN and Bluetooth receivers.

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in AGC circuits (PGAs/VGAs, peak detectors and control voltage generation circuits), considering low-voltage low-power restrictions; Includes real AGC architectures implemented as a general purpose digital feedforward CMOS AGC, a fully analogue feedforward AGC and a combined feedforward/feedback CMOS AGC ; ; ; .

Automatic gain control : techniques and architectures for ...

Automatic gain control (AGC), is a closed-loop feedback regulating circuit in an amplifier or chain of amplifiers, the purpose of which is to maintain a suitable signal amplitude at its output, despite variation of the signal amplitude at the input. The average or peak output signal level is used to dynamically adjust the gain of the amplifiers, enabling the circuit to work satisfactorily with a greater range of input signal levels.

Automatic gain control - Wikipedia

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This book analyzes automatic gain control (AGC) loop circuits. The main objective of this book is to demonstrate AGC solutions in the environment of wireless receivers, mainly in wireless receivers with stringent constraints in settling-time and wide dynamic range, such as WLAN and Bluetooth receivers. Since feedforward AGCs present great advantages in this context, as an alternative to conventional feedback AGCs, this book includes a detailed study of feedforward AGCs design -at the level ...

Automatic Gain Control | SpringerLink

The purpose of the automatic gain control (AGC) algorithm is to regulate the received signal strength at the input of the ADCs such that the required signal SNR for proper decoding is met. For example, if the received signal strength is weak at the antenna, the AGC algorithm boosts the receiver gain stages in order to minimize the noise and bring the

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Processing

How Conventional AGC (Automatic Gain Control) works in ...

A new design method of an all-digital automatic gain control easy to implement is described and tested. The discretisation of the instantaneous gain provides a recursive form that merges the exponential function with the level detection. The first proposed circuit is well adapted for a software implementation. It comprises a simple control loop and two multipliers.

Design and implementation of a new digital automatic gain ...

ABSTRACT We explore techniques to improve the robustness of small-footprint keyword spotting models based on deep neural networks (DNNs) in the presence of background noise and in far-field conditions. We find that system performance can be improved significantly, with relative improvements up to 75% in far-field conditions, by employing a combination of multi-style training and a proposed novel formulation of automatic gain control (AGC) that estimates the levels of both speech and ...

AUTOMATIC GAIN CONTROL AND MULTI-STYLE TRAINING FOR ROBUST ...

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Automatic Gain Control: Techniques and Architectures for ...

In recent years, devices for the automatic control of gain have increased in importance in various areas of amplifier technology. One class of such devices is based on the following principle: a portion of the output signal current of a valve amplifier is extracted, amplified and fed to a rectifier; the resulting rectified signal voltage is then used to vary the grid voltage of an amplifier valve.

Automatic Gain Control (Chapter 11) - Human and Machine ...

Various well known circuitry for obtaining automatic gain control of transistorized RF amplifiers can be classified generally as employing one of two techniques. In one technique, known as reverse AGC, the collector current of the input transistor stage is varied while the collector voltage is maintained substantially constant.

AUTOMATIC GAIN CONTROL CIRCUIT - GTE SYLVANIA INC,US

Automatic Gain Control (AGC) circuits are employed in many systems where the amplitude of an incoming signal can vary over a wide

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dynamic range. The role of the AGC circuit is to provide a relatively constant output amplitude so that circuits following the AGC circuit require less dynamic range.

Automatic Gain Control (AGC) in Receivers

Vacuum tubes are used in a configuration called variable- μ where the grid-to-cathode voltage changes to alter the gain. Optical compressors use a photoresistor and a small lamp (incandescent, LED, or electroluminescent panel) to create changes in signal gain. Other technologies used include field effect transistors and a diode bridge.

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