New Matching Network Automation

We"d like to include the losses in our passive elements into the design of the matching network. The most detrimental efect of the component Q is the insertion loss which reduces the power transfer ...

Design Broadband Matching Networks for Antennas -- This workflow shows how to design a broadband matching network between a resistive source and inductive load using optimization with direct search ...

In this work, a simplified one-parallel-element automatic matching network is proposed and its theoretical optimal value is derived. Next, an automatic matching network was designed and fabricated.

Siamese tracking has achieved groundbreaking performance in recent years, where the essence is the efficient matching operator cross-correlation and its variants.

In this work, we show the answer is affirmative by proposing a search algorithm for automatic matching network design. Instead of adopting the conventional cross-correlation and its variants, we explore ...

For applications where specific control over every parameter is necessary, a traditional matching network may be the better option. However, in environments where flexibility and ...

Thus, in this work, we introduce six novel matching operators from the perspective of feature fusion instead of explicit similarity learning, namely Concatenation, Pointwise-Addition, ...

A matching network is a general network framework that uses deep neural features and external memory to learn the correspondence between input examples and their labels. It is able to generate ...

More-over, the heuristic matching network may not be an optimal architecture design. In this work, we propose a differen-tiable search algorithm to automatically determine which matching functions to ...

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