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ABSTRACTED

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Preface

In this issue of the Turkish Journal of Electrical Engineering & Computer Sciences, we have a total of 39 papers. Two of these are related to the hot topic of machine learning. In their interesting paper (pages 1685-1697), Shehab and Kahraman present several approaches for improving the extreme learning machine. They particularly present a fast and reliable statistical approach to determine the minimum hidden layer size that yields an optimum performance. In the following paper by Jawed et al. (pages 1698-1709), the authors present a direct usage of machine learning in security applications. As another attractive topic, the Internet of Things is considered in the paper by Najjar-Ghabel et al. (pages 1710-1723), where the authors target reliable data gathering via a heuristic approach.

Recently, graphene has attracted the interest of many researchers in our area. Kaliberda et al. in their paper (pages 1724-1735) present simulations of such planar structures in the THz range. They provide reflection, transmission, and absorption characteristics for given graphene and grating parameters. A completely different topic at GHz frequencies is presented by Pirasteh et al. (pages 1736-1746), where the authors consider the design of a compact microstrip filter.

This issue is particularly remarkable with a series of papers on network and power systems. In their paper (pages 1759-1770), Behal et al. consider network security and a generalized detection system for attacks. In another valuable contribution by Mayilswamy and Avinashiappan (pages 2029-2042), the authors present performance estimation and analysis of power line communication and they discuss two-step hybrid single-ended loop testing.

While it is difficult to achieve, our journal successfully combines a wide variety of topics even in a single issue. It also promotes the dissemination of research in electrical engineering and computer sciences by being free of charge for both authors and readers. With our recent actions, our aim is to improve the quality of the journal, while we already see improvements in each and every new issue.

Salih Özgür Ergül
Editor in Chief

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