FOREWORD

Special Section on Recent Progress in Electromagnetic Theory and Its Application

The purpose of this special section is to present a collection of original papers that give an overview of recent progress of research and development in electromagnetic theory and its applications, including those related papers presented at the 2020 Symposium on Electromagnetic Theory, held in Tokyo, Japan on November 17th-19th, 2022. Presentations in international symposia and meetings held in 2022 were also considered as possible contributions to this special section. In response to the call-for-papers, we received several potential paper submissions. After careful reviews, 3 papers were accepted in this special section.

The topics of accepted papers are understanding displacement currents with the help of Helmholtz decomposition, radar cross section (RCS) reduction by metasurfaces and fiber-type polarization splitter. We hope that the readers find this special section useful in the research of the electromagnetic theory and its applications. We would like to express our sincere appreciations to all the authors of contributed papers for their efforts in preparing the manuscripts and to all the reviewers for their careful reviews and valuable comments.

We are also indebted to the editorial committee members for their dedicated efforts in organizing this special section. In particular, we would like to express our sincere gratitude to Dr. Shin-ichi Yamamoto of Mitsubishi Electric Corp. and Professor Kenichi Ishida of Kyushu Sangyo Univ., who played important roles in the publication of this special section.

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