

# PREFACE

The present issue is the 13th volume of The Josai Mathematical Monographs (JMM). JMM is founded by the Graduate School of Science of Josai University (GSSJU), and appears yearly. JMM aims at formal as well as informal information on developments in mathematical research by the faculty of mathematics in GSSJU and others.

This issue was supposed to be the proceedings of the workshop on Representations of Discrete Groups and Geometric Topology on Manifolds at the Tokyo Kioi-cho Campus of Josai University (JU) which was scheduled for 12th and 13th March 2020, but postponed due to corona infection. It contains ten excellent refereed papers which express the potential of the mathematical activities we would have in the workshop. The editors sincerely thank all the authors for their contributions.

We hope that the reader would find in this volume a good view of the present status as well as the background of various topics of geometry and topology, in particular, low-dimensional topology, Kähler geometry, mathematical physics, hyperbolic geometry and Teichmüller theory.

The publication of this issue is supported by funding from the Special Grant of JU. We would like to express our gratitude to the support and also the President Research Grants. The editors wish that the publication of the Josai Mathematical Monographs will be more fruitful in the future. The papers in some previous volumes of JMM are available at the website of Mizuta memorial library : <https://libir.josai.ac.jp/contents/josai/kiyou/jmm/jmm.htm>

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Haruko Nishi (Editor in Chief)