Research Program

The following researches are projected.

(1) Publishing the monograph in Japanese "(with K. Kishimoto and A. Shimizu) Knot Theory and Game, Asakura Publishing Co., Ltd.

(2) Publishing the paper "On mathematics education of knots (in Japanese), Osaka Journal of Mathematics Education, Memorial edition to Professor Hirokazu Okamori.

(3) Publishing the paper "(with I. Tayama) Tabulation of 3-manifolds of lengths up to 10".

(4) A revision of the paper "(with Ayaka Shimizu) Quantization of the crossing number of a knot diagram" and its publication.

(5) Publishing the paper "The Alexander polynomials of immersed concordant links".

(6) A revision of the paper "Characteristic genera of closed orientable 3-manifolds" and its publication.

(7) A study on knotting probability of a spatial arc.

(8) A study on topological imitations of (3,1)-manifold pairs.

(9) A study on a complexity of knitting.

(10) (with K. Kishimoto and A. Shimizu) A study on a password system applying knot theory.

(11) A study on mathematical universe for 3-manifolds.