Research Program

The following researches are projected.

(1) A study on spatial graphs attaching to a surface.

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

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

(4) A study on topological splitting of a definite 4-manifold with infinite cyclic fundamental group.

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

(6) A study of LA-presentations of a ribbon surface-link and their elementary deformations.

(7) Publishing a monograph "Friendly Knot Theory" in Japanese (tentative title).

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

(9) Creating an elderly version of the game "Region Select" applying knot theory.

(10) A study on early childhood education.

(11) A study on a complexity of knitting.