Research Program

The following research activities include the following programs.

- (1) A study on knotting probability of a spatial arc.
- (2) A new development on topological imitations of (3,1)-manifold pairs.
- (3) (with K. Kishimoto and A. Shimizu) A study on a password system applying knot theory.
- (4) Verification of an active effect of brain on an elderly version of the game "Region Select" applying knot theory.
- (5) A study on a complexity of knitting.
- (6) A study on the fundamental group of a ribbon 2-knot
- (7) A study on moves of a smooth surface-knot
- (8) A study on a chord graph constructed from a ribbon surface-link
- (9) A study on Alexander polynomial of middle cross-section of 2-link
- (10) A computable numerical index of a graph from a knot theoretical viewpoint