

KAWAUCHI, Akio's Manuscript List

132. Smooth homotopy 4-sphere (preprint version).
131. Unique diagram of a spatial arc and the knotting probability(preprint version).
130. Knotting probability of an arc diagram(preprint version).
129. Ribbonness of a stable-ribbon surface-link, II. General case(preprint version).
128. Triviality of a surface-link with meridian-based free fundamental group(preprint version).
127. Ribbonness of a stable-ribbon surface-link, I. A stably trivial surface-link(preprint version).
126. Splitting criteria for a definite 4-manifold with infinite cyclic fundamental group (preprint version).
125. (with A. Shimizu and Y. Yaguchi) Cross-index of a graph, *Kyungpook Math. J.* 59 (2019), 797-820.
124. Topology of a 4D universe for every 3-manifold, *Topology and its Applications* 264 (2019), 66-78.
123. (with J. Kim) Immersed 2-knots with essential singularity, *Topology and its Applications* 264 (2019), 462-472.
122. Homological infinity of 4D universe for every 3-manifold, in: *Algebraic Topology and Related Topics* (2019), 153-176, Birkhäuser.
121. (with K. Kauer, S. Kamada and M. Prabhacker) An unknotting index for virtual knots, *Tokyo Journal of Mathematics, Advance publication* 42 (2019), 357-370.
120. Faithful equivalence of equivalent ribbon surface-links, *Journal of Knot Theory and Its Ramifications*, 27, No. 11 (2018), 1843003 (23 pages).
119. (with S. Kamada, J. Kim, and S.Y.Lee) Biquandle cohomology and state sum invariants of links and surface-links, *Journal of Knot Theory and Its Ramifications*, 27, No. 11 (2018), 1843016 (37 pages).
118. Complexities of a knitting pattern, *Reactive and Functional Polymers*, 131 (2018), 230-236.
117. (with S. Kamada, J. Kim, and S.Y.Lee) Presentation of immersed surface-links by marked graph diagrams, *J. Knot Theory Ramifications* 27 (2018), No. 10, 1850052 (10 pages).
116. (with A. Shimizu) On the orientations of monotone knot diagrams, *Journal of Knot Theory and Its Ramifications*, 26, No. 10 (2017), 1750053 (15 pages).
115. (with Y. Joung, S. Kamada and S. Lee) Polynomial of an oriented surface-link diagram via A_2 invariant, *Topology and its Applications*, 231 (2017), 159-185.
114. (with I. Tayama) Representing 3-manifolds in the complex number plane, *Topology and its Applications*, 230C (2017), 425-443.
113. On a cross-section of an immersed sphere-link in 4-space, *Topology and its Applications*, 230C (2017), 194-217.

112. (with K. Kaur, S. Kamada and M. Prabhakar) Gauss diagrams, unknotting numbers and trivializing numbers of spatial graphs, *Topology and its Applications*, 230 (2017), 586-598.
111. A chord graph constructed from a ribbon surface-link, *Contemporary Mathematics*, 689 (2017), 125-136. Amer. Math. Soc., Providence, RI, USA.
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108. Knot theory for spatial graphs attached to a surface, *Proceedings of the ICTS Program: Knot Theory and its Applications*, *Contemporary Mathematics* 670 (2016), 141-168.
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103. On 4-dimensinal universe for every 3-dimensional manifold, *Topology and its Applications*, 196 (2015), 575-593.
102. (with I. Tayama and B. Burton) Tabulation of 3-manifolds of lengths up to 10, *Topology and its Applications*, 196 (2015), 937-975.
101. (with A. Shimizu) Quantization of the crossing number of a knot diagram, *Kyungpook Math. J.*, 55 (2015), 741-752.
100. (with A. Shimizu and K. Kishimoto) A game using knot theory, Japanese Patent Registration Number 5804412 (September 11, 2015).
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97. Splitting a 4-manifold with infinite cyclic fundamental group, revised in a definite case. *Journal of Knot Theory and Its Ramifications*, 23 (2014) 1450029 (6 pages).
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