## Workshop <br> Topology and Computer 2005

A workshop "Topology and Computer 2005" will be held as follows. This workshop is supported financially by the Ministry of Education, Science, Sports and Culture, Grants-in-Aid for Scientific Research (A) "Geometry and Topology of 3-manifolds II" (Director: Sadayoshi Kojima (Tokyo Institute of Technology) \#15204004).

DATE: November 28 - 30, 2005.
LOCATION: Osaka Sangyo University, Umeda Satellite, Osaka Ekimae Building 4, 22F.

## Program

## November 28

| $13: 00-13: 50$ | Tetsuya Hosaka (Utsunomiya University) <br> Coxeter groups, simplicial complexes and boundaries |
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| $14: 20-15: 10$ | Naoko Kamada (OCAMI, Osaka City University) <br> Constructing a table of virtual knots |
| $15: 40-16: 30$ | Kouji Kodama (Kobe City College of Technology) <br> Introduction to KNOT Program |
| $17: 00-17: 30$ | Makiko Ishiwata (Tokyo Woman's Christian University) <br> 5-move equivalence for links up to 9 crossings |

## November 29

| 9:30-10:20 | Kazushi Ahara (Meiji University) <br> Schemes in 'Kids Cindy' - interactive geometry software |
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| $10: 40-11: 30$ | Michihiko Fujii (Kyoto University) <br> Points of finite order on a deformation space of hyperbolic structures |


| $13: 00-13: 50$ | Ben Burton (RMIT University) <br> Theorems, Algorithms and Brute Force: Building a Census of 3-Manifolds |
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| $14: 20-15: 10$ | Chuichiro Hayashi (Japan Women's University) <br> Calculating fundamental surfaces by hand |
| $15: 40-16: 30$ | Masaaki Suzuki (University of Tokyo) <br> Twisted Alexander invariants and a partial order in the knot table II |
| $17: 00-17: 30$ | Keiichi Horie (University of Tokyo) <br> Introduction to Computation Library ~Doctor K~ <br> on Knot and Geometry using Java |

## November 30

| 9:30-10:20 | Mitsuyuki Ochiai, Noriko Morimura, Akiko Emoto (Nara Women's University) <br> Base tangle decompositions and subdivisions of $n$-string tangles |
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| $10: 50-11: 30$ | Mitsuyuki Ochiai, Akiko Emoto, Noriko Morimura (Nara Women's University) <br> Homology 3-spheres with 2-connected W-graphs |
| $13: 00-13: 50$ | Sachiko Hamaguchi, Mitsuyuki Ochiai, Noriko Morimura (Nara Women's University) <br> Convex 3D drawings of 3-connected planar graphs by Steinitz theorem |
| $14: 00-14: 50$ | Fujio Kako (Nara Women's University) <br> Computations of 3-parallel HOMFLY polynomials of 6-braids |
| $15: 20-16: 10$ | Takayuki Nagai (Tottori University of Environmental Studies) <br> Geometric Algorithms with Imprecise Input |
| $16: 40-17: 30$ | Yo'av Rieck (University of Arkansas) <br> The four Color theorem and branched covers of $S^{2}$ |
|  | (joint work with Yasushi Yamashita (Nara Women's University)) |

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[^0]:    Organizers :
    Yoshihiko Marumoto (Osaka Sangyo University)
    Toshio Harikae
    Kazuhiro Ichihara

