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Curriculum Vitae
of
Takeo Yamada, Ph.D.

Professor of Computer Science
Department of Computer Science, National Defense Academy
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- Date of Birth: 10th Oct., 1946 (64 years old)
- Education:
 - 1970, B.S. (Mathematics), Kyoto University
 - 1976, M.S. (Operations Research), National Defense Academy
 - 1980, M.S. (Engineering-Economic Systems), Stanford University
 - 1983, Ph.D. (Engineering-Economic Systems), Stanford University
- Experience:
 - 1970, Computer programmer, Sharp Co.
 - 1972, Research Associate (Applied Physics), National Defense Academy
 - 1983, Lecturer (Management), National Defense Academy
 - 1986, Associate Professor (Management), National Defense Academy
 - 1991, Professor (Computer Science), National Defense Academy
- Research Interests:
 - Mathematical Programming, especially Combinatorial Optimization
 - Operations Research and its Applications
 - Structural Analysis of Dynamical Systems

- Teaching:
 - Undergraduate Courses
 - Freshmen Seminar
 - Mathematics for Computer Science
 - Automata and Formal Languages
 - Graduate Courses
 - Mathematical Programming
 - Stochastic Systems Analysis
- Membership and Activities in Professional Societies:
 - Member, ORSJ (OR Society of Japan), 1972-present
 - Member, IEEE (Control Systems Society), 1982-present
 - Member, JSIAM (Japan Soc. of Indust. and Appl. Math.), 1990-present
 - International Advisory Board, JOR (J. of the OR Society, UK), 2001-present
 - Conference Chair, RAMP Seminar, OR Society of Japan, 1994.
 - Conference Chair, 2012 Spring Conf., OR Society of Japan, 2012 (scheduled)
 - Refereed for JOR, EJOR, JORSJ, DAM, JOTA, Int. J. Comput. Math., Int. J. Systems Sci., IEEE Trans. Automatic Control, etc.
- Honors:
 - 1986, Outstanding Paper Award, IEEE Control Systems Society, for Paper #1 below.
 - 2010, Fellow, Operations Research Society of Japan
- Major Publications:
 1. Yamada, T., D.G. Luenberger, Generic controllability theorems for descriptor systems, IEEE Transactions on Automatic Control, AC-30 (1985), 144-152.
 2. Yamada, T., L.R. Foulds, Graph-theoretic approach to investigate structural and qualitative properties of systems: a review article, Networks, 20(1990), 427-452.
 3. Yamada, T., Controllability and the theory of economic policy: a structural view, International Journal of Systems Science, 21(1990), 723-737.
 4. Samphaiboon N., T. Yamada, Heuristic and exact algorithms for the precedence constrained knapsack problem, Journal of Optimization Theory and Applications, 105(2000), 659-676.
 5. Yamada, T., H. Kinoshita, Finding all the negative cycles in a directed graph, Discrete Applied Mathematics, 118(2002), 279-291.

6. Fujimoto, M., T. Yamada, An algorithm for the knapsack sharing problem with common items, *European Journal of Operational Research*, 171 (2006), 693-707.
7. Taniguchi, F., T. Yamada, S. Kataoka, Heuristic and exact algorithms for the max-min optimization of the multi-criteria knapsack problem, *Computers & Operations Research*, 35(2008), 2034-2048.
8. Yokoya, D., C. W. Duin, T. Yamada, A reduction approach to the repeated assignment problem, *European J. of Operational Research*, 210(2010), 185-193.
9. Yokoya, D., T. Yamada, A mathematical programming approach to the construction of BIBDs, *International Journal of Computer Mathematics*, published online: 02 Feb., 2011 (iFirst).

- Total Publications:

- Refereed Journal Papers (49 papers)
 - EJOR \times 10
 - COR \times 4
 - Int. J. Computer Math. \times 3
 - Int. J. Systems Sci. \times 7
 - IEEE Trans. Automat. Control \times 6
 - Others (JORSJ, Networks, Linear Algebra and its Applications, etc.)
- Refereed Conference Papers (Book Chapters) \times 9
- NDA Memoirs (in Japanese) \times 18
- International Conference Talks (Abstracts) \times 19
- Domestic Conference Talks (Abstracts in Japanese) \times 97