

English-based Program												
Department	Research Area	Research Instruction		Application Code		Main Supervisor				Vice Supervisor		
				Master	Doctor							
Department of Industrial and Management Systems Engineering	-	Research on Software Engineering	Researches on software engineering in general, especially researches on software design such as software modeling, software architecture, software design verification, software design methodologies, software development environment and software product-lines are studied.	-	F67	Professor	Doctor of Philosophy in Information Science (Japan Advanced Institute of Science and Technology)	KISHI, Tomoji	kishi@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Applied Information Science	Though this research course mainly treats advanced information mathematics, pattern recognition and machine learning models from the theoretical viewpoints, its applications to the various problems in the field of industrial management are also covered. The technical side includes information theory, pattern recognition, machine learning, statistical analysis, Bayesian statistics, text mining, information retrieval and others. The application side includes marketing research, management information, business analytics, big data analysis, and other topics.	-	F66	Professor	Doctor of Engineering (Waseda University)	GOTO, Masayuki	masagoto@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Human Life Engineering	Researches on human factors are conducted : especially, methodologies of design, operation and management of a system in which human being is involved are studied. Cognitive and behavior models of human natural behavior are studied.	-	F55	Professor	Doctor of Engineering (Waseda University)	KOMATSUBARA, Akinori	komatsubara.ak@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Systems Science and Engineering	His research interests include various topics in systems science and engineering. Currently he studies adaptive systems approaches, which includes mathematical and computational approach, especially by agent-based modeling and simulation, to complex adaptive systems such as organization, social and economic systems; systems approach to science and technology policy making; soft systems approach to participative decision making and policy making support.	-	F61	Professor	Doctor of Science (Tokyo Institute of Technology)	TAKAHASHI, Shingo	shingo@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Statistical Science	Research of Mathematical Statistics and Applied Statistics, especially, Theories and Applications of Statistical Decision Theory, Multiple Comparison Procedures and Multivariate Statistical Analysis.	-	F62	Professor	Doctor of Engineering (Osaka University)	NAGATA, Yasushi	ynagata@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Intelligent Information System	Research on artificial intelligence, autonomous multi-agent systems, knowledge representation, autonomy oriented computing and related areas. Topic is viewed as an interdisciplinary field where computer science intersects with organization science, sociology, psychology, and other fields.	-	F65	Professor	Doctor of Informatics (Kyoto University)	HISHIYAMA, Reiko	reiko@waseda.jp			

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Department of Industrial and Management Systems Engineering	-	Research on Mathematical Decision Making	Research of decision making and operations research based on mathematical programming and network optimization. The main topic is decision making including uncertainty derived from randomness, flexibility of linguistic information analysis and human subjectivity. The applications include asset allocation, supply chain management, tourism and interactive decision support system.	-	F70	Associate Professor	Doctor of Philosophy in Information Science (Osaka University)	HASUIKE, Takashi	thasuike@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Operations Research and Optimization	Researches on operations research and optimization. In this course, we study mathematical modeling of systems and decision making under uncertainty, especially for minimizing risks using the methodologies of stochastic programming, large-scale optimization, and integer programming.	-	F69	Professor	Doctor of Engineering (Waseda University)	SHIINA, Takayuki	tshiina@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Manufacturing Systems Engineering	Researches on design and management of intelligent manufacturing systems for sustainable society by using information and communication technology (ICT) more effectively. Main research topics are dynamic scheduling using evolutionary algorithms, green supply chain management considering both economical and ecological aspects, supply chain resilience to disasters, advanced cellular manufacturing systems.	-	F71	Professor	Doctor of Engineering (Osaka University)	TANIMIZU, Yoshitaka	tanimizu@waseda.jp			
Department of Industrial and Management Systems Engineering	-	Research on Multi-Agent System	Society consists of various decision-making entities (agents). The interaction among agents include cooperative relationships (such as teams) and competitive ones (such as markets). In basic research on multiagent systems, computational models are created and simulated based on the findings of social sciences, while in applied research, complex behaviors of societies are interpreted using the results of basic research, and problems are identified and solved.	-	F72	Professor	Doctor of Engineering (Kyoto University)	ISHIDA, Toru	toru.ishida@oni.waseda.jp			