

Technological Directory - Graduate School and Faculty of Information Science and Technology (2020)

Department of Information Systems

Discipline	Field	Expertise	Keyword 1	Keyword 2	Keyword 3	Open to consultations on	Lab	Researcher
Mathematical and physical science	Physics	Theoretical physics	Theory of general relativity/Astrophysics	Formula manipulation programming	Numerical methods to nonlinear partial differential equations	(1) Basic lectures on natural sciences (physics, mathematics, astronomy) (2) Modeling and simulation using differential equations	Astrophysics and Mathematical Sciences Lab	Hisaaki SHINKAI, Professor
Information systems	Information software platform	Services Computing	Componentware	Mash up	Web-Web/telecom coordination	Web Mashups and high value adding technologies for ubiquitous network components (web services, the cloud, etc.)	Services Computing Lab	Hiroshi SUNAGA, Professor
Software	Software engineering	Formal Method, software processes	Trustworthy software	Model checking	Model checking tool NuSMV	Applications of model checking to software development	Database & Software Engineering Lab	Satoru FUKAMI, Professor
Information systems	Production management systems	Production scheduling	Production planning	Inventory management	Genetic algorithm	Development and improvement of production management systems	Management Systems Lab	Masatsugu SHIIHARA, Professor
Information Systems	Social Infrastructure Information System	Systems Engineering	Information System Design Methodology	Business Process Modeling	ID processing	Ethnography, modeling, and design optimization of information systems for critical infrastructure sectors	Social Infrastructure Information System Lab	Takaaki YAMADA, Professor
philosophy	The meaning of life	A Philosophical Study of Frankl's Thought	nihilism	self-transcendence	Bei-sein	Resolution of the sense of meaninglessness	Ethics	Toru AMEMIYA, Professor
Software	Software Engineering	Team Software Development, Software Engineering and Education	Cloud Computing	Agile Software Development	Software engineering and education	Agile team software development method	Team Software Development Lab	Hiroshi IGAKI, Associate Professor
General	Informatics	Theoretical Computer Science	Theory of computation	Mathematical informatics	Discrete structures	Natural science education (mathematics)	Mathematical Informatics Lab	Takashi SAITO, Associate Professor
Software	Parallel computing	Cluster computing	Parallel computing	Compiler	Dynamic load balancing	High performance computing using PC-cluster	Parallel Processing Lab	Yasuharu MIZUTANI, Associate Professor

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Information Science	Scientific visualization and analysis	Biomedical Imaging	Scientific visualization	Biomedical imaging	Image processing	Biomedical imaging and analysis Physiological measurement and analysis	Scientific Visualization Lab	Yoshiyuki KAMAKURA, Associate Professor
Linguistics	Pragmatics/Semantics	Cognitive Pragmatics	Relevance Theory	Ostensive communication	Conceptual/procedural distinction	Interpretive processes of words or phrases related to oppositeness	Linguistics	Naohiko KUROKAWA, Assistant Professor
Literature	Japanese Literature	The Reception of Genji-monogatari	Genji-monogatari	Amamonzeki(Nunnery Temple)	Emaki(Picture scroll)	1.Bibliographic survey 2.Lectures on the history and background of classical works	Japanese Literature	Eri YOKOYAMA, Assistant Professor
Software	Software Engineering	Software process , Software metrics	Software process	Software metrics	System Log Analysis	Analysis of software quality using software metrics	Software Development & Design Lab	Masaki OBANA, Assistant Professor
Software	Software engineering	Software reliability, Software engineering	Software reliability	Software quality	Project management	* Software quality measurements * Application of software reliability growth model * Software development process	Software Reliability Lab	Kiyoshi HONDA, Assistant Professor
Mathematics	Applied mathematics and statistics	Design theory	Combinatorial design	Finite geometry	Design of experiments	Constructions for combinatorial designs	Discrete Mathematics Lab	Shoko CHISAKI, Assistant Professor