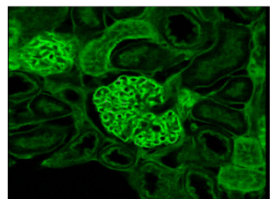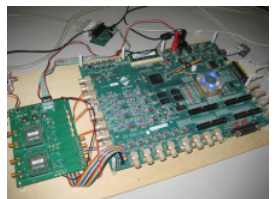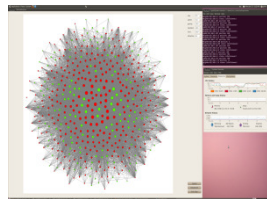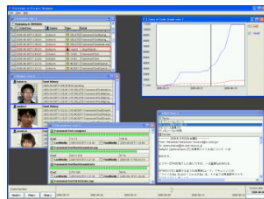# OUTGROW YOUR LIMIT

－無 限 の 可 能 性 、こ こ が 最 先 端－

Nara Institute of Science and Technology

Graduate School of Information Science

Open Campus for Prospective Students 2014

March 8th, 2014（Saturday）10:00〜17:00

＜Laboratory Information／Event Introduction＞

Welcome to the Open Campus！
NAIST Graduate School of Information Science is completely open for prospective students. All research laboratories are introduced and the state-of-the-art research demos are shown. Entrance examination and university life will also be explained. You can also directly consult with the faculty and students of the lab that you are interested in.

Main Event

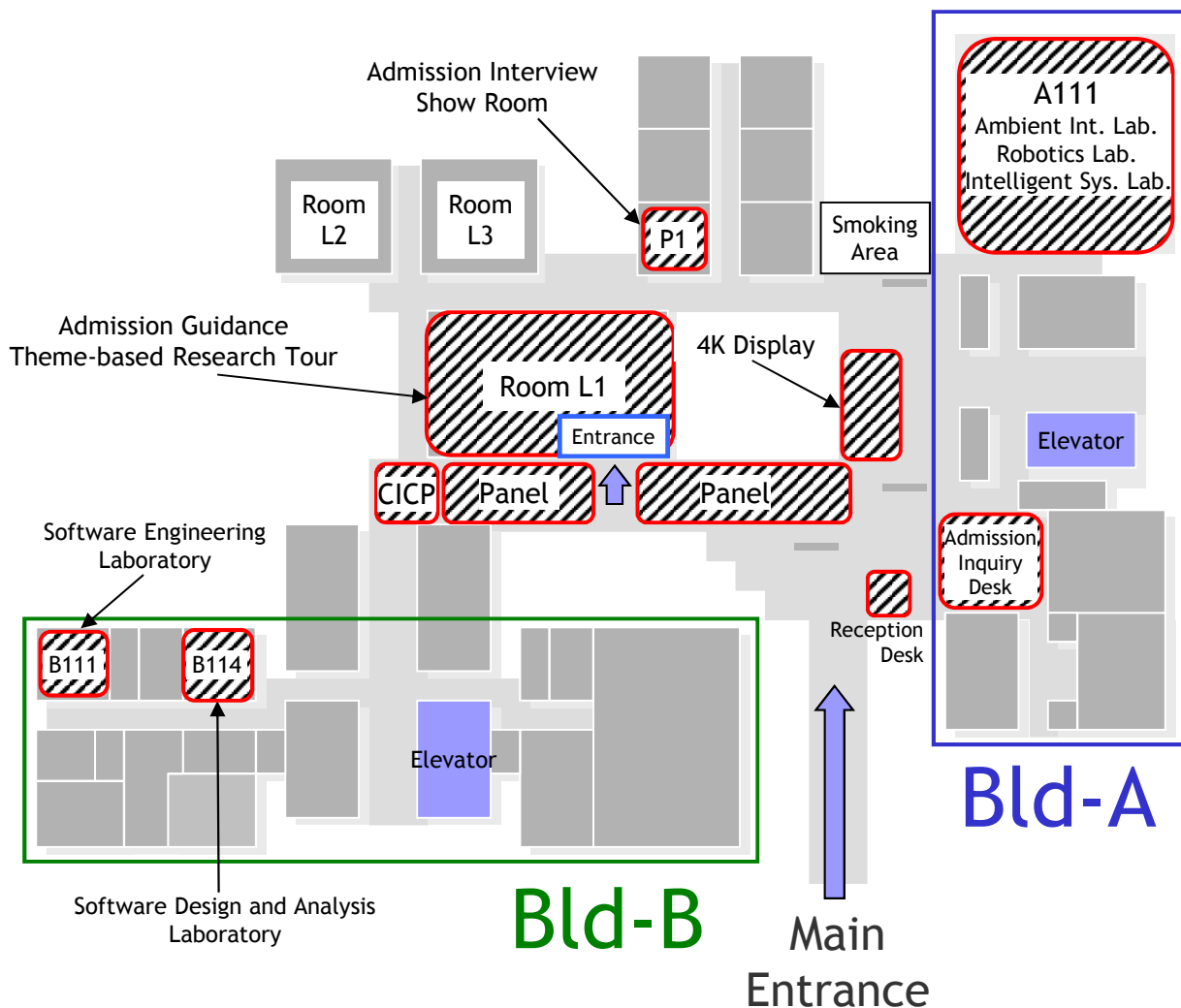| Event	Place	Time	
Panel Exhibition [p.4] NAIST情報科学研究科のすべての基幹研究室の概要をつかむことができます。	1st Floor Lobby	10:00〜17:00	
Laboratories Demo [pp.7-13] 各研究室の研究成果を目で見て肌で感じていただくことができます。	Each Laboratory Room		
Admission Inquiry Desk [p.4] 入試に関すること、入学後のことなど情報科学研究科全般に関する質問や相談を受け付けます。	1st Floor Reception Desk		
Admission Interview Show Room [p.4] 入試面接会場の様子を展示しています。	Seminar Room P1		
Admission Guidance [p.4] 情報科学研究科の概要や入試などについて、スライドを用いてわかりやすく説明します。研究科の教員が説明を行い、質問にも丁寧に答えます。	Room L1	10:00〜10:30	13:00〜13:30
Theme-based Research Tour [p.6] NAISTの学生が案内役になって各研究室をご案内します。みなさんにより近い立場ですので学生生活に関する質問もお気軽にどうぞ。	Room L1	Set Time 10:30（10:30〜11:15）	
CICP Poster and Demo [p.14] 学生プロジェクト(CICP)の活動成果をポスターとデモで紹介します。 一番よいと思ったプロジェクトに投票してください。	1st Floor Lobby	10:00〜16:00（Voting Deadline 15:00）	
Gender Equality Seminar [p.15] NAISTの学生が、本学での授業や研究、また実際の学生生活などについてセミナーを行います。	Bio-Science Building Room L13	11:35〜12:10	15:00〜15:30
Student Dormitory Tour 学生宿舎(単身用)の居室および、共通部分(ラウンジ、浴室、ランドリースペース)を見学できます。	Dormitory Bld. 2, 2nd Floor	10:00〜12:00	13:00〜15:00

Event	Place	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00
Panel Exhibition	1st Floor Lobby								
Laboratories Demo	Each Lab Room	10:00 ← Any Time → 17:00							
Admission Inquiry Desk	1st Floor Reception Desk								
Admission Interview Show Room	Seminar Room P1								
Admission Guidance	Room L1	10:00–10:30			13:00–13:30				
Theme-based Research Tour	Room L1	10:30–11:15							
CICP Demo	1st Floor Lobby	10:00 ← Any Time (Voting Deadline: 15:00) → 16:00							
Gender Equality Seminar	Bio-Science Building Room L13		11:35–12:10				15:00–15:30		
Student Dormitory Tour	Dormitory Building 2, 2nd Floor	10:00 ← Any Time → 15:00							

Layout of Room and Laboratories

Information Science Building, 1st Floor Lobby

The overview of each laboratory will be introduced by the panel exhibition. As we will also introduce collaborative laboratories working with other research institutes as well as a variety of research projects, we encourage you to take your time and explore all those information.

※The location may be subject to change.

Admission Interview Show Room

Room L2

Room L3

P1

Smoking Area

A111
Ambient Int. Lab.
Robotics Lab.
Intelligent Sys. Lab.

Admission Guidance
Theme-based Research Tour

Room L1

Entrance

4K Display

Elevator

CICP

Panel

Panel

Admission Inquiry Desk

Software Engineering Laboratory

B111

B114

Reception Desk

Elevator

Bld-B

Software Design and Analysis Laboratory

Bld-A

Main Entrance

For the 2nd and above floors of Information Science Building A and B, please refer to the next page.

Information Science（Bld-A, Bld-B）

Bld-B

7F	B707 Large-Scale Syst. Manag. Lab. B715 Augmented Human Comm. Lab.
6F	B607 Intelligent Sys. Cont. Lab. (A111) B608 Optical Media Interface Lab.
5F	B507 Applied Algorithmics Lab. B508,B515 Comp. Syst. Bio. Lab
4F	B406 Computing Architecture Lab. B414 Dependable System Lab.
3F	B308 Vision & Media Computing Lab.
2F	B206 Internet Architecture & Sys. Lab. B213 Mathematical Informatics Lab.
1F	B111 Software Engineering Lab. B114 Software Design & Analysis Lab.

Bld-A

7F	A707 Computational Linguistics Lab. A708 Interactive Media Design Lab.
6F	A608 Foundations of Software Lab.
5F	
4F	A405 Ubiquitous Computing Systems Lab. A408 Network System Lab.
3F	A316 Internet Engineering Lab. A316 Network Ochestratian Lab.
2F	
1F	A111 Ambient Intelligence Lab. A111 Robotics Lab. A111 Intelligent Sys. Cont. Lab. (B607)

※ The gateway between Bld-A & Bld-B is available only on the first floor.

🔴 Theme-based Laboratory Tour 🔴

> What kind of Laboratories are there？
> Which Laboratories are good to visit？
> How to visit the laboratory based on your interest in efficient way？

> We provide theme-based Laboratory Tour for you.

What is Theme-based Lab Tour？

- Laboratory guidance by the students
- Each tour: 5min/each-lab, 45min/total)
- Visit several laboratories at one tour

Main Theme

Computer Science A

- **Applied Algorithmics**
- **Ubiquitous Computing Sys.**
- **Foundation of Software**
- **Software Engineering**
- **Software Design & Analysis**

Computer Science B

- **Computer Architecture**
- **Dependable System**
- **Internet Engineering**
- **Internet Architecture & System**

Media Informatics

- **Computational Linguistic**
- **Augmented Human Comm.**
- **Network System**
- **Vision & Media Computing**
- **Interactive Media Design**
- **Optical Media Interface**
- **Ambient Intelligent**

System Information

- **Robotics**
- **Intelligent System Cont.**
- **Mathematical Informatics**
- **Computational Syst. Bio**
- **Large-Scale Syst. Manag.**

Schedule

- **Morning**：10:30〜11:15
  （Start after the briefing (10:00〜)）

- **Meeting Place**：**Room** L1（See p-4）

  ※ Of course you can visit the laboratories directly without joining the tour

Computer Science A

Applied Algorithmics Laboratory (Seki Lab.)   B507

Overview （security, software, database, coding, bioinformatics）

We develop mechanisms for computation and apply them to novel research problems, including security, software, database, coding, bioinformatics, …. Visit us at B507 and check our contribution in many different research areas.
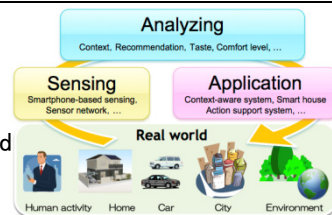
Research topics

★ Trans-organizational role-based access control
★ Anti-phishing user authentication for novice users
★ Extremely fast analysis of RNA structures

- Security in sensor networks
- Verification of security against inference attacks on XML data
- Ultra high-density two-dimensional barcode scheme

Ubiquitous Computing Systems Laboratory（Yasumoto Lab.） A405

Overview （Activity Navigation & e-Health, Participatory & Social Sensing , Smarthouse, Mobile Sensing, Sensor Networks, Intelligent Transport Systems）

Ubiquitous computing systems provide users with more useful services at lower cost than ever before by processing, aggregating, and analyzing real world data sensed with various sensors and by recognizing the physical situations of the real space.

Research topics

- Context Recognition through User's Touch Operations on Smartphones
- DTN in Post-Disaster Areas
- Interface for Supporting the Creation of Energy Saving Plan in Smarthome
- Sensor Networks for Agriculture
- Gamification-based Participatory Sensing
- System for Efficient Collection and Delivery of Traffic Information
- Indoor Map Generation Using Ultrasonic Sensors
- Creating Social City Maps by Analyzing Social Activities

## Division for Foundations of Software (Ito Lab.)   A608

Overview (ITS, Mobile, Cloud Computing)

Division for foundations of software led by Professor Minoru Ito is engaged in research areas of intelligent transportation systems (ITS), cloud computing, and mobile computing, in order to realize efficient algorithms truly useful in the real world.

Research Topics

● Navigation in Multilevel Parking Facility
★ Electronic Triage System
● Localization in Underwater Sensor Networks
★ Adjusting Parameters in Stereoscopic 3D Video
● Task Scheduling Considering Turbo-Boost
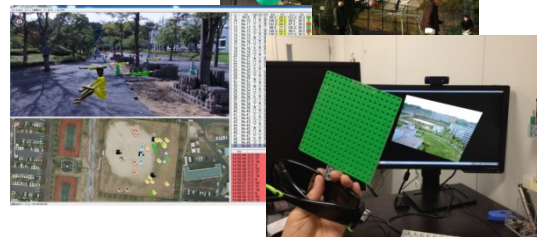
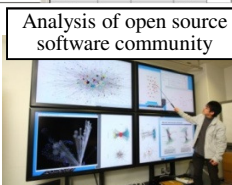## Software Engineering Lab （Prof. Ken-ichi Matsumoto）   B111

Overview （Empirical Software Engineering, Open Source Software Engineering, Software Security）

The software engineering lab. uses both theoretical and empirical approach to address various problems related to software development methodologies, human computer interaction and software lifecycle management. We fully exploits the potential of students' curiosity and creative thinking together with conventional research theories and techniques to tackle new topics in software engineering.

Development Task Measurement System

Analysis of open source software community

Research Topics

- Mining Software Repositories
- Software Obfuscation / Watermarking
- Research Paper Citations in Soft. Dev.
- Open Source Software Development
★ Bugarium: 3D interaction for Large-Scale Data
★ Measuring Developers' Brain Activities

※ **Laboratory introduction [★] Introduction with demo. [●] Panel introduction only.**

Software Design and Analysis Laboratory (Iida Lab.)　　B114

Overview (Software design & analysis, Repository mining, Cloud system)

   We study techniques for supporting the development and the design of Cloud systems. Especially, we focus on modeling theory and implementation technique for design process and document. Also, we are doing collaborative research with industry to develop practical approaches for software design.

Research topics

★ Project Replayer
   System for replaying development process
● System for making development plan
● Process complexity metric

● Cloud systems using SDN (Software-Defined Network)
● Analysis of bug fix processes
● Analysis of the relationship between bug and refactoring
● Feature extraction using source code analysis

Computer Science B

Computing Architecture Laboratory (Nakashima Lab.)　　B406
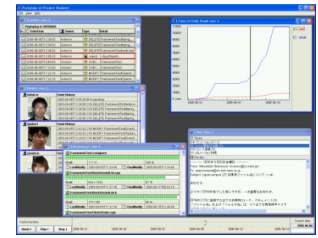
Overview (High-Speed, Low-Power, Variable-Reliability, New-Material Computers)

   This laboratory focuses on the next generation computer system which specially targets at software/hardware collaborations to break the performance wall, and address reliability and energy issues in current systems. Ultra low-power accelerators and dependable new material computers are designed under JSPS(kibanA), JSPS(houga) projects. We are expecting any students with a strong enthusiasm in computer engineering including both of hardware and software.
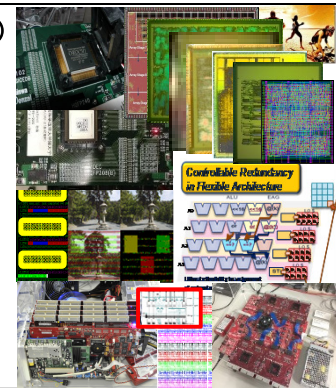
Research topics

★ Ultra Low-Power Accelerators
★ Tiny Film CPU
★ Reliable Accelerator

● x86 Co-Processing Accelerator EMAX
● 8bit CPU EMIN to run 32bit ARM OS
● Robustness Customizable CPU ERELA

Dependable System Laboratory (Inoue Lab.)　　B414

Overview (Reliable VLSI Design, VLSI Testing, Distributed Algorithms, Parallel Algorithms)

   Dependability is the concept from user's point of view that we can use systems reliably and securely. We are pursuing research on safe and secure systems including distributed systems with hundreds of computers and VLSIs with billions of transistors.

Temp./Volt. Analysis

Degradation Detection

Research topics

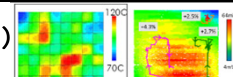★ VLSI design-for-testability & test generation
★ VLSI degradation detection
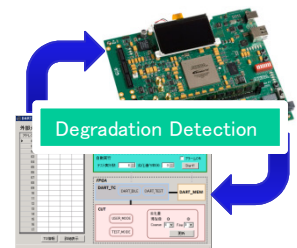★ Shared memory distributed algorithms

● Power/Thermal-aware VLSI testing
● Fast IR-drop analysis
● Data mining for failure prediction
● Parallel algorithms

Internet Engineering Laboratory (Yamaguchi Lab.)　　A316

Overview (cloud computing, testbed, security, mobile computing, etc.)

To enable continuous development for the Internet, we study the foundation and systematization of the Internet meta system. The meta system supports scalability, plasticity, security and mobility in the Internet. To contribute to society, we engage in constructing next generation networks through our research.
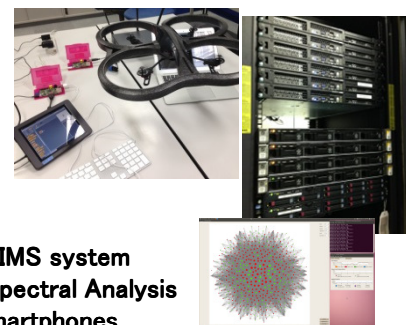
Research topics

★ Miniature Internet
● SOS Message Propagation via Smartphones
● Mobile Data Offloading

● DoS Attacks Detection on IMS system
● Anomaly Detection using Spectral Analysis
● Weather Nowcasting via Smartphones
● Quantifying Security in Multi-tenant Cloud Computing etc.

※ **Laboratory introduction [★] Introduction with demo. [●] Panel introduction only.**

Internet Architecture and Systems Lab（Fujikawa Lab） B206

Overview （Internet, Mobile, Ubiquitous, Security）

Main objective of our laboratory is to establish systems and applications for the Internet on cross-sectional issues, especially related to mobile and ubiquitous computing, operation, and information security. At this open campus, we demonstrate "Distributed Publish/Subscribe system for sensor network", "Vehicle sharing traffic information system for ITS" and "Dynamic routing mechanism based on Message ferrying for Mobile network".
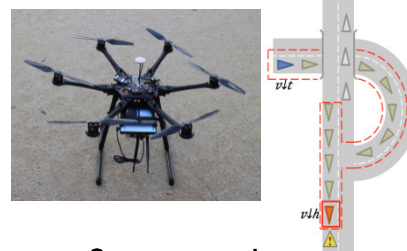
Research topics

★ Traffic information system for ITS
★ Message ferrying for Mobile network
• 4K super high definition transmission

· Distributed Publish/Subscribe system on Sensor network
· High speed implementation for elliptic curve cryptography on GPGPU
· Education program for security experts （enPiT Security: SecCap）

Media Informatics

Computational Linguistics Laboratory （Matsumoto Lab.） A707

Overview （natural language processing, text mining, keywords, web text analysis, knowledge infrastructure）

We focus on computational approaches to understanding natural language, the essence of human intelligence. We make both fundamental and applied research on natural language analysis.

Research topics

★ Japanese Morphological Analyzer "ChaSen"
★ Corpus Management and Search Tool "ChaKi"
★ Japanese Dependency Parser "CaboCha"
★ Predicate Argument Structure Analyzer "YuCha"

★ Opinion Mining from the Web
★ Error Correction System "Chantokun", "CorrCha"
★ Technical Term Retrieval Assistance
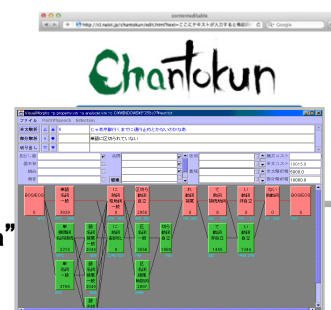
Augmented Human Communication Lab （Nakamura Lab.） B715

Overview

Toward enhancement of human communication abilities, AHC lab. is studying multilingual speech translation, dialog system, communication QoL, silent speech interface, user-adaptive super-human automatic speech recognition/synthesis, and brain analysis related human communication.

Research topics

★ Speech Translation
★ Speech Recognition
★ Speech Synthesis
★ Quality of Life

★ Voice Conversion
★ Dialog System
★ Communication support for autism
★ Brain analysis related human communication
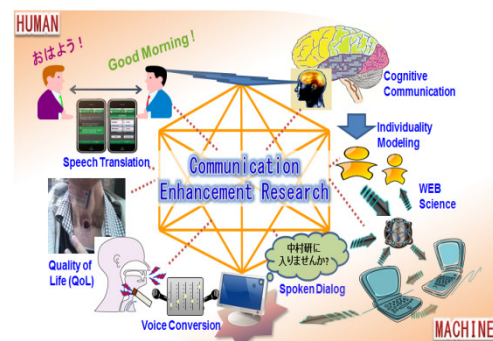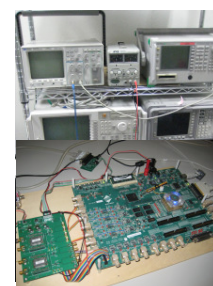
Network System Laboratory （Okada Lab.） A408

Overview （Sensing, ICT for surgery support, Wireless power transmission, Mobile communication and broadcasting）

This laboratory develops wireless communication, broadcasting, and sensing system. And its embedding methods are also studying. Broadband and high reliable signal processing is applied to wireless sensing technologies for position location and surgery support systems.

Research topics

★ Terrestrial-digital broadcasting reception
Software defined radio receiver
• Surgery support with RFID sensor
• Wireless power transmission using parallel line

• Position location utilizing LCX antenna
• ESPAR antenna assisted MIMO-OFDM
• Integrated optical and radio communications
• Rain rate estimation using Millimeter-wave mesh topology

※ **Laboratory introduction [★] Introduction with demo. [•] Panel introduction only.**

Vision and Media Computing Laboratory (Yokoya Lab.)　　B308

Overview （Coumputer Vision, Virtual Reality, Mixed Reality, Image Processing）

The laboratory develops technologies that extract 3D information from camera images and effectively show various information in a computer to human. Research fields are Computer Vision, Virtual Reality and Mixed Reality.

Research topics

- ★ AR using Mobile Computer
- ★ Image, Video, 3D Model Inpainting
- ★ Real-time Diminished Reality
- • Free View Generation for Robot Control

- ★ Augmented Telepresence using Aerial Omnidirectional Video
- ★ Camera Pose Estimation and 3D Modeling from Video Images
- • Position Estimation of Near Light Point using Clear Hollow Sphere
- • Inferring Important Regions Induced by Videographer's Intention
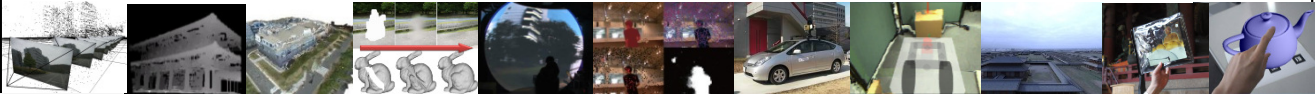
Interactive Media Design Laboratory (Kato Lab.)　　A708

Overview （Augmented Reality, Next Generation Interface, Computer Graphics）

The research in our laboratory not only focuses on the future interactive media itself but also media technologies, human-computer interaction, and data engineering which are needed to create innovative interactive media.

Research topics

- ★ Design support system using projection-based AR
- ★ Transparent AR system
- ★ Appearance controlling by projector-camera system
- • Object tracking using natural features

- ★ Embedding technology for imperceptible patterns
- ★ AR authoring system for work support
- ★ AR meeting support system

Optical Media Interface Laboratory (Mukaigawa Lab.)　　B608

Overview （Computer Vision, Photometric Analysis, Sensing System）

We are focusing on a photometric analysis in the computer vision research field which aims to understand scenes according to optical information obtained by a camera. This laboratory was newly established in February 2014 to realize a new interface that humans and machines can share scene information through optical media based on measuring and analyzing techniques of a light transport.

Research topics

- ★ Understanding of material, shape, and texture by analyzing reflection and scattering.
- ★ Computational photography to visualize invisible scenes by computation.
- ★ Multi-functional imaging by combining reflectors with a camera.
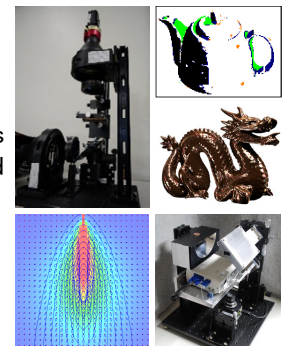
Ambient Intelligence Laboratory （Hagita Lab.）　　A111

Overview （Ambient Intelligence, Computer Vision, Human Robot Interaction）

Our goal is realization of a safe, secure and comfortable life space for all members of society through the application of ambient intelligence. Ambient intelligence which means our life space has intelligence is developed by real world sensing, knowledge structuring and interaction for humans.

Research topics

- • System with a depth sensor for coaching skillfull human motions
- • Grouping people for tracking across non-overlapping cameras
- • Purchase estimation by analyzing actual customer's behavior
- • A social media mediation robot for elderly
- • Self-sacrifice robot for stress elimination

※ Laboratory introduction [★] Introduction with demo. [●] Panel introduction only.
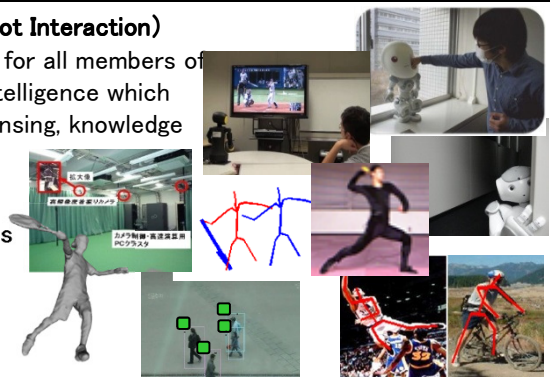
System Information

Robotics Laboratory (Ogasawara Lab.)   A111

Overview (Intelligent Robot, Visual Interfaces, Human modeling)

A robot is an intelligent system that obeys real world dynamics while interacts and communicates with human beings. Such a system requires sensing the real world environment in real-time (*real-time sensing*). In our laboratory, we develop real-time sensing technologies, such as robot vision and tactile sensing, and integrate them into an intelligent system.

Research topics

★ Human mimetic expression by Android Robot
★ Self introduction by by dual−arm robot
★ Humanoid robot demonstration

• Environment modeling and mobile robot navigation
• Robotic training system using musculoskeletal model
• Designing the robot behavior by reinforcement learning

Intelligent System Control Laboratory   A111, B607

Overview (Systems Control , Mechatronics,   Learning)

Our research interest covers basic theories and applications for Systems Control, Sensing & Signal Processing and Machine Learning for Control.

Research topics

★ Modeling & Control of Artificial Muscle
★ Street Performance Robot via Visual Feedback
★ Reinforcement Learning of Robot Motor Skills
● Power Assist Technology for Bicycles
● Feedback Error Learning for Control
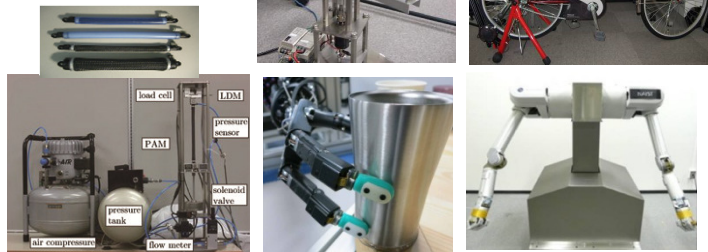
## Mathematical Informatics Laboratory (Ikeda Lab.)   B213

Overview (Math Model, Machine Learning, Brain Informatics, Adaptive Systems)

The laboratory studies Solutions with Mathematical Model, that include development and analysis of machine learning methods, applications to mechanism of brain information processing, and applications to engineering such as adaptive systems.

Research topics

★ Mechanism of Decision Making by EEG
★ Robotics for Human Assistance and Care
• Modeling of Driving Behavior
• Control Application of 3D Measurement System

★ Signal Processing of MEG
★ Gazing in Paint Observation
• Analysis of Machine Learning Method
• Machine Learning in System Biology
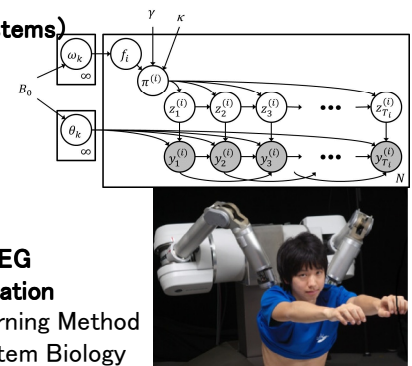
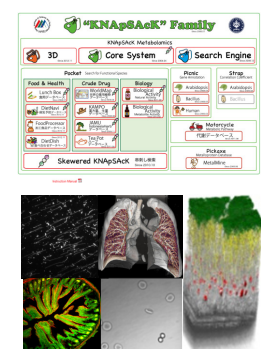## Computational Systems Biology Lab. (KANAYA Lab.)   B508, B515

Overview (Medical Bioinformatics, Secondary metabolite DB, Network analysis, Bioimaging & Nano tech., Medical Imaging)

We have developed medicinal/edible plant DB, metabolite−species, effects of metabolites and plants to human health. We also have developed a simulator for large−scale metabolism and an analyzer for molecular networks. Furthermore, we research methods of measuring and processing technology for biological function, such as optical tweezers, 3D imaging of cells, MR imaging, and processing technology of medical images.
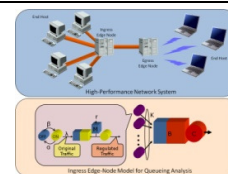
Research topics

★ Multifaceted plant usage database
★ Visualization system of bio-networks
★ Dynamic simulation of metabolic flow

★ 3D imaging of actin filaments
• Two-photon microscope imaging
★ MR diffusion imaging

※ **Laboratory introduction [★] Introduction with demo. [●] Panel introduction only.**

## Large-scale Systems Management Lab. (LSM Lab.)   B707

Overview （System Analytics, Network Science, Service Science, Algorithm）

LSM Lab. research is aimed at developing performance modeling and algorithm techniques for design, control and architecture of large-scale systems such as cloud computing, with which the resulting systems achieve high performance and low vulnerability. Our research focus is on design framework, fundamental technologies and highly-qualified services, in particularly for large-scale computer/communication network systems.
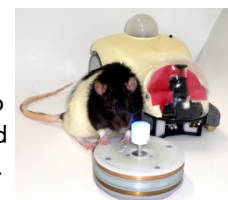
Research topics

- Cloud Computing
- Green Computing/Networking
- Big Data Analytics
- Risk Analysis/Markov Analysis
- Disaster-Tolerant Networking
- Service Science
- Online Algorithm
- Mechanism Design
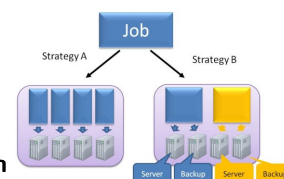
Neural Computation Laboratory (Doya Lab.)

Overview （computational neuroscience, reinforcement learning, evolutionary robotics）

The goal of the laboratory is to establish computational models of the learning mechanism in animal brains, and then apply the principles to information processing of artificial creatures. To achieve this goal, we are building theoretical models of the molecular/neural networks involved in reward-based learning, and verifying these models through animal and robotics experiments.

Research topics

- Multi-level simulation of basal ganglia circuit
- Bayesian connectivity estimation from spike train data
- Quadruped/wheel robot experiments for learning and evolution in realistic environment

- Recording animal brains in stochastic-reward tasks
- Recording neuromodulators in delayed reward tasks

Educational Collaborative Laboratories

Symbiotic system Laboratory (NEC's Lab.)   NEC Kansai Labs.

Overview （Inspiration computing, Co-creation communication）

The laboratory studies a new type of information system which can create new values by collaborating with people. This study is based on researches on human intention, intellectual productivity, and supporting human intelligent activity. We imagine the future where people will live with intelligent artifacts to realize their potential.
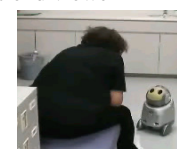
Future trend viewer

Research topics

- ★ Multi-sensor behavioral analysis
- ★ Intellectual productivity modeling
- ★ Co-creation promotion
- ★ Emotional adaptive interaction

- ★ Weekday observation tour 9:00–18:00 from Mon to Fri.
- ★ Send an email for application request@CCIL.jp.nec.com

Human behavioral analysis   Emotional interaction

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Molecular Bioinformatics Laboratory (AIST/Ueno & Fukui)

Overview （bioinformatics, molecular dynamics simulations, high performance computing）

In order to understanding functions and mechanisms of proteins and biological macromolecules, this laboratory focuses on computational studies and software development of bioinformatics based methods. Including an exhaustive search strategy with large scale computers and method of experimental data analysis recovering information loss in the incomplete data set, methods of computer science is applied in studies of life science toward a knowledge discovery.   .

Research topics

- Three dimensional reconstruction of proteins by electron microscopy
- Molecular simulations of protein-protein interactions ● Software development of the script editor for molecular animations

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※ Laboratory introduction [★] Introduction with demo. [●] Panel introduction only.
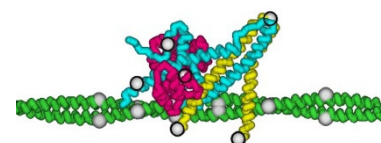
Technology of Radiological Science (NCVC)   Only Panel

Overview （PET, SPECT, MRI, Molecular imaging, Medical imaging processing）

The laboratory is attached to National Cerebral and Cardiovascular Center (NCVC) and aimed at developing advanced medical imaging diagnostic devices and image processing technologies, which can provide functional images in clinical services. It is a unique group of experts from various fields and collaborate with medical doctors and companies.

Research topics

- Clinical diagnostic imaging
  - Quantitative and standardized SPECT imaging
  - Rapid and quantitative PET systems, – MRI
- Molecular imaging for pre-clinical studies
  - Evaluation of new therapies and drugs
  - Development of animal models of diseases

- Key technology development
  - Image processing
    Image reconstruction, Tracer analysis
    Motion correction, Image registration
 - High spatial-resolution SPECT device
  - Computer simulation
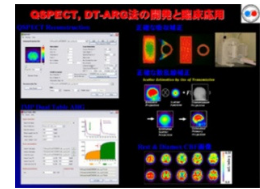
Programming Science Laboratory (Kinoshita Lab.)

Overview （program semantics, programming logic, mathematical methods, verification, validation）

PS Lab conducts scientific research on mathematical phenomena on programming. Its scope includes construction of mathematical model of programs (program semantics), rigorous specification of information processing systems, validation and verification.

Research topics

- ★ Agda (dependently typed functional language, proof description language)
- ★ Assurance case (documentation of validation)
- ● Open Systems Dependability

- ● Correctness by construction using constructive type theory
- ● Control theory based on coalgebras
- ● Mathematical methods of system construction (formal methods, semiformal methods)
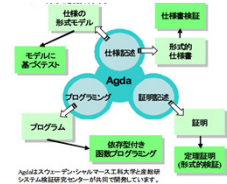
## Network Orchestration Laboratory (Kobayashi Lab.)   A316 (iplab)

Overview （Large-Scale Network Infrastructure, New Generation Networks）

We are conducting research on the technologies that enable the evolution of the Internet in collaboration with NICT. In particular, we are developing JGN-X, our global network testbed, to stimulate R&D activities on novel network infrastructure technologies, large-scale experiments, and international joint projects.

Research topics

★New Generation Network Technologies
  Solve the problems with the Internet
★Network Testbed Technologies (JGN-X)
  Enable environment for large-scale experiments

★Software-Defined Network Technologies
  Realize programmable networks
★Virtual Network Technologies
  Provide your personalized environment everywhere
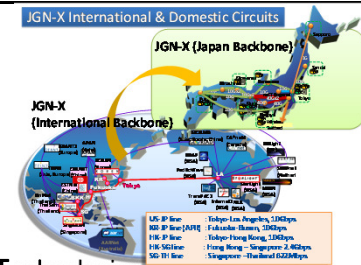
※ Laboratory introduction [★] Introduction with demo. [●] Panel introduction only.

CICP 2013

「Project-based Research」Support Program for Students
CICP (Creative and International Competitiveness Project)
Poster Presentation, Demo & Contest

CICP is research project where the student proposed with "Theme that You Want to Challenge by Yourself". It is an educational research program to practice some potential and creativity by providing a research budget. The important is how to deal with challenging project without fear of failure.

Activity of Year 2013

7Projects(General Track)in June and 4 additional Projects in December (by International Students of IPGP Program)are accepted、where each project received about 40,000 to 800,000 yen research budget. In this Open Campus, the General Track will present research results including demo, and Additional Track will present ongoing research.

General Track Schedule		Additional Track Schedule	
May	Theme Proposal	Nov	Theme Proposal
Jun	Project Announcement	Dec	Project Announcement
Sep	Ongoing Research in English (International Conference Format)	Mar	Ongoing Research (Poster)
		Sep	Research Result (International Conference Format), Final Report
Feb	Research Results in English		
Mar	Demo & Final Report	Mar	Demo

Let's Vote for the Best CICP2013 Project

Best Project of Year 2013 will be selected by Open Campus visitors and NAIST faculty, Spring Seminar participants (on the day before). Please join the poll by affixing a sticker to the voting panel. Voting deadline is March 9th, at 15:00. Awards ceremony will be held at March 9th, 16:30, Room L3.

※Additional Tracks are not included in the contest.

General Track : Demonstration of Research Results（Contest）

1301	Augmented Reality system supporting the Match-making Party
1302	PitchFlow: Better Guitar Sheet Music Library Through Real-time Editing and Award Strategy
1303	BROCCOLI: An User-Specific Software Keyboard Learned from Typing Mistakes
1304	Web-based dialogue system for mental disorders
1305	Higgins: Your Very Own Teacher of English Pronunciation
1306	Story meets Creator - Designing the sustainable system to support them based on Gamification-
1307	Let's Fly!

Additional Track : Poster Presentation of Ongoing Research（Not for Contest）

G1301	eCOStamp: Electronic Collectible Stamps
G1302	Dependable Gesture-based HMI for Machine Automation using DART Technology
G1303	NAIST-NAV : NAIST Open Campus Navigation and Information Service
G1304	HerbsMed: Herbal medicine apps using integrated Jamu and Kampo formulas

※デモンストレーションの開催場所については4ページの地図をご参照下さい

NAIST Gender Equality Seminar

Come together, Ladies!
You are the next role models!

女子って
どれくらいいるの？

*Female graduate students
will give talks.
How is their everyday life?
Would it be manageable?
Please come, and exchange your
anxiety and worries about future,
employment, and research.*

*You can hear the story from
students of Information Science,
Biological Sciences and
Material Science! You can also
talk to them directly. For anyone
who are working hard towards
the future, aspiring to be
researchers, please join us!*

やっていける
かなあ・・・。

相談できるところ
ってあるの？

Time：March 8th, 2014 (Saturday)
1st　　：11:35-12:10
2nd　　：15:00-15:30

Place：NAIST Biological Sciences Lab. Bld, 1st Floor, Room L13
* This is not an explanation for the entrance examination

At our booth, the Gender Equality Promotion Office will show how we support researchers at NAIST. In addition, we also provide various leaflets at the entrance of each Graduate Schools. Please come and visit us.

**Nara Institute of Science and Technology
Gender Equality Promotion Office**

Nara Institute of Science and Technology

NAIST