College of Information Technology
Kangwon National University

Training Creative Professional with Practical Engineering Ability

Training Adventurous Engineers with Future Adaptability
Characterization Business Program

Support of creative technology education & startup of commercialization for smartphones.

Educating the design & implement technology of utility programs and software game applications for smartphones such as iPhone, Android phones, etc.

Supporting professional education, budget, and mentoring for one person or a small business start-up.

Beginning in 2010 as part of support programs of the Small and Medium Business Administration

Holding excellent faculty members and the outside specialists

Having and renting exclusive computer labs (40 iMacs), the iPad, the Galaxy Tab 10.1, and actual training equipment

Current results of completed courses

Awards

· Android course: approx. 130 students
· iPhone course: approx. 90 students
· Professional developer course: approx. 22

· Received Bronze Prize at the 22nd Global Software Contest of Korea for 2010
· Received Grand Prize at National App Center Competition for 2011
· Received Bronze Prize at National App Center Competition for 2011

Goals

The College of IT has 47 faculty members and about 1,300 undergraduate students and 100 graduate students enrolled in programs leading to the degrees

Organization & Status

The College of IT

Administration Office

Division of Electrical and Electronic Engineering

Department of Electrical and Electronics Engineering

Department of Electronic and Communication Engineering

Division of Computer Science and Engineering

Department of Computer and Communications Engineering

Department of Computer Science

Related Organization

Information and Telecommunication Institute

Innovation Center for Engineering Education

Engineering Information Center

LINC Agency

WISET Regional Agency of Kangwon

Status

The College of IT has 47 faculty members and about 1,300 undergraduate students and 100 graduate students enrolled in programs leading to the degrees.
Characterization Business Program

Mobile App Center
Supported by Small & Medium Business Administration (SMEs)

• Goals
  ▶ Support of creative technology education & startup of commercialization for smartphone.
  ▶ Educating the design & implement technology of utility programs and software game applications for smartphones such as iPhone. Android phones, etc.
  ▶ Supporting professional education, budget, and mentoring for one person or a small business start-up.

• Present state
  ▶ Beginning in 2010 as part of support programs of the Small and Medium Business Administration
  ▶ Holding excellent faculty members and the outside specialists
  ▶ Having and renting exclusive computer labs (40 iMacs), the iPad, the Galaxy Tab 10.1, and actual training equipment
  ▶ Current results of completed courses  • Android course : approx. 130 students
  ▶ iPhone course : approx. 90 students
  ▶ Professional developer course : approx. 22

• Awards  • Received Bronze Prize at the 22nd Global Software Contest of Korea for 2010
  • Received Grand Prize at National App Center Competition for 2011
  • Received Bronze Prize at National App Center Competition for 2011
Characterization Business Program

Com2us
Educating Students as Professional Human Resources Customized for COM2US

Goals
- Operating membership program with a global mobile games developer
- Strengthening ties through COM2US membership
- Strengthening field training and job opportunity through COM2US internship

Present state
- Operating membership program in 2011
  - Current results: approx. 30 people with a membership, 2 interns, 2 COM2US employees
- A special favor of membership
  - Education and training for smartphones mobile game development (by a COM2US researcher)
  - Providing monthly scholarship funding for selected students
  - Providing membership space in KNUIT
- Operating COM2US internship course
  - Operating internship course for COM2US membership-completed students
- COM2US recruitment preference
  - In COM2US hiring, giving preference to COM2US membership & internship-completed students
STP
Samsung Talent Program

● ● Goals
► School-work linking program through human resources training customized for Samsung Electronics, Co.
► Establishing and operating advanced technology curriculum customized for Samsung Electronics, Co.
► Giving internship and recruitment preference to STP-completed students

● ● Present state
► Began in 2006 (changing Samsung Information and Communications Track into STP in 2011)
► Selecting as interns after passing examinations of SSAT and OPIC
  • Giving scholarship to the 4th grade (₩10,000,000 worth for one year)
  • Guarantee of entering Samsung Electronics (up to 5 students in KNUIT per year)

Olleh KT-KNUIT
Internship Program

● ● Goals
► Strengthening internship and job opportunity through academic-industrial cooperation with KT
► Strengthening field adaptation ability through long-term internship of KT

● ● Present state
► Making the long-term internship agreement with the KT research center & KT wired/wireless network research center
► Operating long-term intership program to the 3rd or 4th grade student in KNUIT (15 credits per semester)
► Starting from 2010, giving intern opportunity up to 10~15 students yearly.
  • Selecting hitherto 29 students
  • Giving payment for internship (₩950,000 per month) and preference in applying to KT
Characterization Business Program

Medical Convergence Industry of Leaders in Industry College Cooperation (LINC)
Supported by Ministry of Education & Human Resources Development

●● Goals
► Human resources training and technology development for regional industry development through academic-industrial cooperation
► Industrial cooperative-friendly universities, reform in system, differentiated university, link with local industry
► Academic-industrial cooperation, field training, support/start up education system, establishment
► Medical convergence industry, specialized education, focus supporting

●● Present state
► From 2012, for five years, support working expenses (₩3.9 billion per year)
► Training sensor, mobile communication technology, and embedded system professionals needed for high-tech medical equipment industry

Professionals Training Center
Supported by Ministry of Knowledge Economy for Smart Lighting Research Center

●● Goals
► Academic-industrial joint development for demanded technology of small and medium businesses, needed for IT convergence
► Training IT, LED-OLED, design, technology and knowledge of lighting environment
► Educating leaders and top-level human resources of national lighting fields in small and medium businesses

●● Present state
► 8 participating professors, 44 M.S. & Ph.D. researchers, 19 business researchers, and 13 companies
► Supporting a total of 3.6 billion won for 3 years and 7 months from June 2010
Current Business in the Process

- **DUZON-KNU(IT+management) Human Resources Training Program**
  - Human resources training program customized for DUZON-KNU(IT+management)
  - With the nation's largest, and most advanced IT total service group, DUZON.
  - High-tech IT human resources training through curriculum integrating IT with management
  - Giving job opportunities to the junior and senior student completing the training course
  - Planning to open by 2013, Spring semester

- **Operating Other Courses of Academic-Industrial Cooperation**
  - Operating DB high-quality human resources training program with ALTIBASE
  - Operating human resources training program and launching Institute converged with COM2US, IT, and design

Present state
- 8 participating professors, 44 M.S. & Ph.D. researchers, 19 business researchers, and 13 companies
- Supporting a total of 3.6 billion won for 3 years and 7 months from June 2010
To acquire generic technology ability in the field of computer and communications engineering, the primary mission of the Department of Computer and Communications Engineering is to provide students very intensive curriculum; database system, embedded system & operating system, information security & algorithm, multimedia, computer networking and so on. Especially we provide the training courses as follows:

**Educational objectives**
- Training junior developers who have convergence ability of HW/SW and can be sent into the fields after graduation
- Training technology managing experts of analysis, design, and evaluation for Large Software & Embedded System
- Training convergence-service experts for up to date computer technology and various applications
- Training project manager of planning & coordination abilities for IT convergence system development

**Educational contents**
The program of our department includes computer system architecture, system software, database, communication & network, multimedia system, artificial intelligence & human computer interaction, software engineering, and so on. During the 1st or 2nd year, we focus on theoretical education and experiment, and in the 3rd or 4th year, we focus on the application field of design and implementation.

**Career Opportunities**
After graduation, the students can work in the areas such as:
- Government officials, researchers or development experts in government funded research centers or company institutes
- Hardware/software engineers in large companies, small & medium businesses, and venture enterprises
- Specialist for information security, web programmers, network engineers, financial data processing experts, and so on
- M.A or Ph.D’s courses

**Qualification**
- Engineer Information Processing, Specialist for Information Security, Craftsman Web Design, and Craftsman Information Equipment Operation
- Engineer of Network Management, Certified Web Programmer, Electronic Commerce Manager Certified Internet Webmaster, Microsoft Certified Professional, Sun Certified Java Programmer

The information oriented society is now changing into a new highly convergence society, because the innovation of IT is based on the convergence of computer, communication, and broadcasting technology. To keep up with the pace with the rapid changes, the educational purpose of our Division of Computer Science and Engineering is to provide well trained and highly qualified IT experts leading this convergence society. The Division has two departments; Department of Computer and Communications Engineering and the Department of Computer Science. Our excellent faculties and environments will give students the best opportunity to learn primary principle and skill through theoretical knowledge and practical experiences.
Kangwon National University?

✔ National University in Capital Region
Kangwon National University is a regional-national university located in the closest capital region. Kangwon National University would like to not only alleviate Korean parents’ burden on education fees but also enhance the quality of public education to fulfill the public educational ideal.

✔ Extensive Scholarship Awards
We provide various scholarships to students with the opportunity to conduct advanced studies: government scholarship, a school supporting association scholarship, national industry supporting scholarship, business, interregional industry-university cooperation business scholarship, etc.

✔ Comfortable and Convenient Dormitory Facilities
We have a dormitory that can accommodate 2,100 students (35% of freshmen) and our students can live on and use it at low costs. The dormitory has various convenient facilities: a computer room, a lounge (for watching TV or VCR), a laundry room, a reading room, etc. We have constructed a local area network(LAN) connected to the university computer network in each room.

✔ Convenient Transportation (Chuncheon Campus)

① Seoul - Chuncheon: We have various commuter bus routes in addition to train & intercity buses. For the completion of the Gyeongchun Line double track and the open Gyeongchun-Highway in 2010, they have covered the distance in 40~50 minutes less than before.

② Wonju - Chuncheon: We have a commuter bus route besides the intercity bus (approx. One hour required)
### Division of Computer Science and Engineering

#### Department of Computer and Communications Engineering

**Computer Network Laboratory**

<table>
<thead>
<tr>
<th>Research Theme</th>
<th>Research related to Wireless Data Communication and Multimedia System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Content</td>
<td>We have developed component technologies for Next Generation Multimedia System based on MPEG-4 and Electronic Book Reader &amp; Utility Technologies. And we have studied Mobility Management Technology(HandOff) for the Subscriber of Mobile Communication Network.</td>
</tr>
<tr>
<td>Research Professor</td>
<td>Seo, Ju-Ha, Professor</td>
</tr>
<tr>
<td>Related to fields</td>
<td>Internet &amp; Multimedia / Wireless Data Communication</td>
</tr>
</tbody>
</table>

**Computer Communications Networks Laboratory**

<table>
<thead>
<tr>
<th>Research Theme</th>
<th>Research of Computer Communication Principle and Development of Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Content</td>
<td>We have studied Operation Principles of Computer Communication such as Web Service, IPTV, Smart Phone App, etc. and learned Software technologies of Communication Network for these services.</td>
</tr>
<tr>
<td>Research Professor</td>
<td>Kim, Hwa-Jong, Professor</td>
</tr>
<tr>
<td>A major field</td>
<td>Data Communication / Computer Network / Network Programming</td>
</tr>
</tbody>
</table>

**Smart Media & Database System Laboratory**

<table>
<thead>
<tr>
<th>Research Theme</th>
<th>Database System, Multimedia, Cloud Computing, Smart Phone Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Content</td>
<td>We have studied Various Multimedia Services such as N-Screen Service based on Database System &amp; Multimedia, Cloud Computing, and Smart Phone App Client.</td>
</tr>
<tr>
<td>Research Professor</td>
<td>Choi, Hwang-Kyu, Professor</td>
</tr>
<tr>
<td>A major field</td>
<td>Database / Multimedia / Cloud Computing</td>
</tr>
</tbody>
</table>

**Computer Communication Laboratory**

<table>
<thead>
<tr>
<th>Research Theme</th>
<th>A study on Information System Audit &amp; Control and Dignosis, and IT convergence Medical System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Content</td>
<td>Studying an effective design and efficient evaluation techniques of Information System including Computer and Communication. Especially Information System Architecture, Software Design and Programming, Software Testing, Information System Audit, etc. are the primary subjects of study and these are widely using the very closely linked relationship among the labs, SW industry, and medical equipment industry.</td>
</tr>
<tr>
<td>Research Professor</td>
<td>Kwon, Ho-Yeol, Professor</td>
</tr>
<tr>
<td>A major field</td>
<td>Information System Audit / IT convergence Medical System</td>
</tr>
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**Database Laboratory**

<table>
<thead>
<tr>
<th>Research Theme</th>
<th>A study on Database Application Technologies for Web, Data Mining, Multimedia, and XML</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Content</td>
<td>We have acquired technologies using DBMS about the new field of Application for Web, Data Mining, Data Warehousing, Multimedia, and XML as well as the existing field of Application for Storing of Large Data.</td>
</tr>
<tr>
<td>Research Professor</td>
<td>Whang, Whan-Kyu, Professor</td>
</tr>
<tr>
<td>A major field</td>
<td>Distributed Database Management System(DBMS) / Data Mining</td>
</tr>
</tbody>
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**Distributed Multimedia Laboratory**

<table>
<thead>
<tr>
<th>Research Theme</th>
<th>Computing Security in Mobile Environment, Wireless Infrastructure Network</th>
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</thead>
<tbody>
<tr>
<td>Research Content</td>
<td>We have studied security problems of computing as various computing features great and small based on how Wired / Wireless Infrastructure Network are dotted. We have always pursued the harmony between theoretical researches about primary theory and practical abilities for programming to complete them.</td>
</tr>
<tr>
<td>Research Professor</td>
<td>Jeong, Choong-Kyo, Professor</td>
</tr>
<tr>
<td>A major field</td>
<td>Computer Network / Network Security / Web Service</td>
</tr>
</tbody>
</table>
We have studied Operating System and Core Technology for Computer Aided Products; Smartphone, Medical Device, home appliance, etc. and have trained abilities to fit into an actual product through task and practice.

Research Theme: Operating System and Core Technology for Computer Aided Products
Research Content: We have studied Operating System and Core Technology for Computer Aided Products; Smartphone, Medical Device, home appliance, etc. and have trained abilities to fit into an actual product through task and practice.
Research Professor: Kim, Young-Seok, Professor
A major field: Operating System / Microprocessor Application / Embedded System

Distributed Processing Laboratory
http://distrib.kangwon.ac.kr

We have studied Operating System and Core Technology for Computer Aided Products; Smartphone, Medical Device, home appliance, etc. and have trained abilities to fit into an actual product through task and practice.

Research Theme: Distributed Processing Middleware & Light-weight Secure Protocol for Embedded System
Research Content: With consideration for constrained-resource such as memory & processing, we have studied adaptive version for Embedded System such as smart phone, PDA, Networked sensors, etc. based on light-weight of Distributed Processing Middleware. We have also completed the study and development of Light-weight Secure Algorithm & Protocol to meet requirements of constrained-resource & Security.
Research Professor: Lee, Heon-Gull, Professor
A major field: Distributed Processing / Realtime System / Computer Security

Mobile Embedded System Laboratory
http://mmslab.kangwon.ac.kr

We have studied Operating System and Core Technology for Computer Aided Products; Smartphone, Medical Device, home appliance, etc. and have trained abilities to fit into an actual product through task and practice.

Research Theme: Embedded System, Ubiquitous Computing, Cyber Physical System(CPS), etc.
Research Content: We have learned about operation principle, core technology, and application service on high performance of information telecommunication devices for the Smart Generation.
Research Professor: Choi, Chang-Yeol, Professor
A major field: Computer System / Ubiquitous Computing / Cyber Physical System(CPS)

Computer Communication Laboratory
http://cnclab.kangwon.ac.kr

We have studied Operating System and Core Technology for Computer Aided Products; Smartphone, Medical Device, home appliance, etc. and have trained abilities to fit into an actual product through task and practice.

Research Theme: Computer Network & Mobile Communication Network, Network Security Research
Research Content: We have studied computer network structure & operation principle such as Internet, and structure about prevailing mobile network, ad-hoc network, wireless mesh network, etc. We have acquired basic technology related to network security applied to all types of networks including insecure wireless network especially. Because network security is used to e-commerce, we also research basic technologies for secure business transactions.
Research Professor: Lee, Goo-Yeon, Professor
A major field: Data Communication / Computer Network / ad-hoc Network / Network Security

Artificial Intelligence Laboratory
http://ailab.kangwon.ac.kr

In the 21st century, the importance of Artificial Intelligence technology is growing bigger and bigger, as we want the computer to do something intelligent. We have studied technology and application of AI, and focused on Computer Vision & Pattern Recognition such as character recognition. We have also treated the field for User Experience in the high level while applying AI technology to HCI.

Research Theme: Artificial Intelligence(AI), Computer Vision & Pattern Recognition, HCI
Research Content: In the 21st century, the importance of Artificial Intelligence technology is growing bigger and bigger, as we want the computer to do something intelligent. We have studied technology and application of AI, and focused on Computer Vision & Pattern Recognition such as character recognition. We have also treated the field for User Experience in the high level while applying AI technology to HCI.
Research Professor: Ha, Jin-Young, Professor
A major field: HCI, Patten Recognition, Character Recognition

Visual Communication Laboratory
http://viscom.kangwon.ac.kr

Develop methods to convert 2D image into 3D in realtime, to generate stereoscopic image from depth from defocus. As well, design depth upsampling methods for generation of optimum stereoscopic images. Other researches include local 3D video processing and saliency detection.

Research Theme: 3D Image/Video Processing
Research Content: Develop methods to convert 2D image into 3D in realtime, to generate stereoscopic image from depth from defocus. As well, design depth upsampling methods for generation of optimum stereoscopic images. Other researches include local 3D video processing and saliency detection.
Research Professor: Kim, Man-Bae, Professor
A major field: 3D Image Processing, 3D Conversion, Video Processing
Software System Laboratory  http://snslab.kangwon.ac.kr

Research Theme  Computer Software Design, Medical Convergence, Intelligent Transportation System, Emotion Smart Lighting

Research Content  We have studied Base Technologies on design, implementation, and test of Computer Software and applied to the 3rd application fields. The application field is recently studying on the fields of medical convergence, Intelligent Transportation System, Smart Lighting convergence, and Moving picture media service.

Research Professor  Jung, In-Bum, Professor  A major field  Operating System / Parallelized Performance / Computer System

Multimedia Communication Laboratory  http://visual.kangwon.ac.kr

Research Theme  Digital Image Signal Processing, Image Compression, Image Communication

Research Content  We have studied various Image Enhancement Techniques, Image Compression, and other applications on many display devices including the Mobile Phone.

Research Professor  Kim, Yoon, Professor  A major field  Signal Processing / Multimedia Communication / Image Processing

Natural Language Processing Laboratory  http://nlp.kangwon.ac.kr

Research Theme  Natural Language Processing & Intelligent Software

Research Content  The purpose of studies on Natural Language Processing & Intelligent Software are construction of more convenient user environment to make the computer system understand the human language. This lab has widely studied on Intelligent Software from practical technology such as Natural Language Search and Spam Mail Filtering to Dialogue User Interface System in Intelligent Robot such as Maru or Hubo.

Research Professor  Kim, Hark-Soo, Professor  A major field  Natural Language Processing / Information Retrieval / Knowledge Mining

Department of Computer Science  

Digital System Laboratory  http://cs.kangwon.ac.kr/~smrhee

Research Theme  Computer System Architecture, Digital System Design, Microcomputer System

Research Content  This Digital System laboratory has studied on Architecture and Design of Computer Hardware. The research fields are various Digital System related to the following: Design and Analysis of Circuits, Computer Architecture and Performance Acceleration Techniques, Digital Multimedia System.

Research Professor  Rhee, Sang-Min, Professor  A major field  Computer Architecture / Digital System Design / Microcomputer

Database Laboratory  http://cs.kangwon.ac.kr/~jhkim

Research Theme  Database, Data Warehouse, OLAP, Data Mining, Data Stream, Conceptual Modeling, Information Retrieval

Research Content  This Database laboratory has studied on an Efficient Storing Scheme and Process of Large & Multi-dimensional Data. The primary researches are the following: Process and Management of Large Data such as Stream Data, Sensor Data & Web Data, Distributed and Parallel Processing in Cloud Computing, Distributed and Parallel Processing of Data utilizing Virtualization Technology, and Modeling & Information Search for Efficient Data Application.

Research Professor  Kim, Jinho, Professor  A major field  Database / Data Warehouse / OLAP / Data Mining / Stream Data

Computer Network Laboratory  http://net.kangwon.ac.kr


Research Content  This Computer Network laboratory has studied on Wired/Wireless Communication related technology and security to be ground rules in Information Society. The primary research fields are the following: Wireless Sensor Network for efficient use of sensors detecting information, Network Security technology for safe Communication, Development of Embedded System based wireless communication, Mobile Communication for moving wireless communication, Wideband Communication called as the next communication, etc.

Research Professor  Chung, Young-Jun, Professor  A major field  Wireless and Mobile Communications Systems / Wireless Sensor Networks / Internet Applications and Services / Network Security / Network Management

College of Information Technology
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<tr>
<th>Artificial Intelligence Laboratory</th>
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<tbody>
<tr>
<td><strong>Research Theme</strong></td>
<td>Artificial Intelligence, Computer Graphics, Image Processing, Pattern Recognition</td>
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<tr>
<td><strong>Research Content</strong></td>
<td>The study fields of This Artificial Intelligence laboratory are all fields related to human from Human Inference to Act. The primary researches are the following: Machine Learning, Meta - Reasoning, Natural Language Processing, Expert system, Computer vision, Speech Recognition, Pattern Recognition, etc.</td>
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<tr>
<td><strong>Research Professor</strong></td>
<td>Choi, Hyung-Jun, Professor</td>
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<th>Data &amp; Knowledge Engineering Laboratory</th>
<th><a href="http://cs.kangwon.ac.kr/~ysmoon">http://cs.kangwon.ac.kr/~ysmoon</a></th>
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<tbody>
<tr>
<td><strong>Research Theme</strong></td>
<td>Data Mining &amp; Knowledge Discovery, Privacy Preserving Data Mining, Mining Applications, Stream Data Processing, Mobile Computing</td>
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<tr>
<td><strong>Research Content</strong></td>
<td>DKE(data &amp; knowledge engineering) Lab. has focused on finding useful knowledge and information from large-scale databases. The major research interest is to develop high performance data mining algorithms such as clustering, classification, and association rules. The Lab. is also interested in privacy-preserving data mining, mobile and cloud computing, and handling of high-speed stream data. These research issues can be widely used in a variety applications such as image matching, business trend analysis, medical data analysis, decision making &amp; forecasting, and intelligent mobile applications.</td>
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<tr>
<td><strong>Research Professor</strong></td>
<td>Moon, Yang-Sae, Professor</td>
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<tr>
<th>Network Management Laboratory</th>
<th><a href="http://cs.kangwon.ac.kr/~mjchoi">http://cs.kangwon.ac.kr/~mjchoi</a></th>
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<tr>
<td><strong>Research Theme</strong></td>
<td>Measurement and Analysis of Network Traffic, M2M Network &amp; Service Management, Network Security</td>
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<tr>
<td><strong>Research Content</strong></td>
<td>With the basic knowledge of computer network, we have monitored Internet traffic and analyzed what application makes traffic and how often it happens. We have utilized them as a basic data of network QoS or security. We are also studying service management in M2M communication environment in parallel with the appearance of smart devices and the development of mobile equipment. This lab is composed of graduate and undergraduate students who are interested in network measurement and network security.</td>
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<tr>
<td><strong>Research Professor</strong></td>
<td>Choi, Mi-Jung, Professor</td>
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<tr>
<th>Intelligent Software Laboratory</th>
<th><a href="http://cs.kangwon.ac.kr/~leeck">http://cs.kangwon.ac.kr/~leeck</a></th>
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<tr>
<td><strong>Research Theme</strong></td>
<td>Natural Language Processing, Information Retrieval, Machine Learning</td>
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<tr>
<td><strong>Research Content</strong></td>
<td>Intelligent Software Laboratory has studied on Natural Language Processing, Information Retrieval, Machine Learning, etc. The primary study fields are the following: base technology of Machine Learning &amp; Automatic Korean Word Spacing of using this, Korean POS Tagging, syntax-analysis, Named-Entity Recognition, Relation Extraction, Event Extraction, Document Classification, and Language Model-Based Information Retrieval Model, Topic Detection and Tracking(TDT), etc.</td>
</tr>
<tr>
<td><strong>Research Professor</strong></td>
<td>Lee Chang-Ki, Professor</td>
</tr>
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