Working on Both Research and Service to Create Future Value through Informatics

Research

Comprehensive research from basic theory to cutting-edge technology

Merging computer science and information engineering with the humanities, social sciences, life sciences, and many other disciplines, Informatics is a new domain of study that is involved in all aspects of society. Having established four Research Divisions and 16 Research Centers, NI is carrying out research comprehensively on everything from the basic theory of informatics to cutting-edge fields such as artificial intelligence, big data, the Internet of Things, and information security. In addition to its efforts to promote international exchange and collaboration with overseas universities and research institutes, as well as collaboration between industry, government, and academia to help implement its research achievements in the real world.

Research Divisions

- Principles of Informatics Research Division
  - Information Systems Architecture Science
  - Research Division
  - Research Division
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  - Research Division
- Digital Content and Media Sciences Research Division
  - Research Division
- Information and Society Research Division
  - Conducts interdisciplinary research based on emerging information technologies such as big data analytics to achieve the required level of effectiveness in a cyber-physical society.

Researchers with various expertise collaborating to work on special research domains

- Research Center for Safe, Secure, and Healthy Society
  - Research Center for Future Intelligence and Special Technology
- Research Center for Medical Regulition
- Research Center for Human Sciences and Research Data
- Research Center for Cybersecurity and Research Development
  - Global Research Center for Advanced Software Systems and Engineering
  - Global Research Center for Cyber-Physical Systems

Graduate Program

Fostering new leaders for an advanced information society

The graduate program at NI is carried out in three ways: (1) participating in the Graduate University for Advanced Studies, SGKENDA, (2) collaborating with other graduate schools, and (3) accepting research students for special collaboration. SGKENDA is the first graduate university in Japan established to foster original world-class academic research that transcends traditional disciplines and to pioneer advanced fields of study that create new lines of scientific inquiry. NI has joined with SGKENDA to establish the Department of Informatics in the School of Multidisciplinary Sciences to offer graduate programs with three-year and five-year PHD courses. The Department of Informatics has six research fields at the Department, students can take lectures and research advice according to their field of study.

Science Information NETwork (SINET):
An ultra-high-speed network supporting over 900 universities and research institutions across Japan

- Innovative connectivity
  - Ultra-high speed
  - Multifunctionality
    - Authentication federation platform development and provision
    - Cloud adoption and utilization support

NII Security Operation Collaboration Services (NII-SOCS):
Creating an inter-university collaborative information security framework

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- Robust and reliable
  - Global reach

Supporting academic research infrastructure and education

In collaboration with universities and research institutes as well as research communities, NII builds and operates the Science Information NETwork (SINET), leveraging the SINET network's ultra-high speed, high reliability, and multifunctionality. NII works to expand and provide an authentication federation platform, cloud adoption, and utilization support, and an academic content platform, as well as to promote open science and develop next-generation academic research platforms. Furthermore, NII Security Operation Collaboration Services contribute to building a framework enabling university and other academic institutions to respond quickly to cyber security incidents and other issues.

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