iSchool Movements and Linnaeus University

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iSchool Focus
Digital transformation is the change associated with the application of digital technology in all aspects of human society.
The Fourth Industrial Revolution builds on the **Digital Revolution**, representing new ways in which technology becomes embedded within societies and even the human body.

The Fourth Industrial Revolution is marked by **emerging technology** breakthroughs in a number of fields, including **robotics, artificial intelligence, nanotechnology, quantum computing, biotechnology, The Internet of Things, 3D printing** and **autonomous vehicles**.
Industrial Revolution vs. Information Revolution

DATA
Big Data Will Drive The **Fourth** Industrial Revolution

The Purpose of the iSchools

- The iSchools assumes that expertise in all forms of information fuels progress in science, business, education, and culture.

- This expertise must include an understanding of the uses and users of information, the nature of information, and information technologies and their applications.

- The iSchools are dedicated to advancing information field (iField).
The iSchool Vision

- **Interdisciplinary approaches** to harnessing the power of information and technology; and seeks to advance the potential of humans.

- Widely recognized for creating innovative systems and designing information solutions.

- iSchool graduates will meet the personnel and leadership needs and have a profound impact on society.
Should be inclusive and open-minded
Annual iConference

- Every head of iCaucus schools is currently required to attend the iConference.
  - A great opportunity to get acquaintance with heads of iSchools in the world.

- Highlights of the Conference
  - iSchool Best Practices in Teaching
  - iSchool Best Practices in Research
  - iSchool Best Practices in Industry Collaborations
  - iSchool Best Practices in Capstone Projects
Strengths of iSchool Approach
Strengths of iSchool Approach

- **iSchool** is an excellent brand for industry marketing
  - *This brand is very well-established in North America*
  - *This brand is building momentum in AP region*
- **Easy to collaborate if the anchor is on INFORMATION**
  - *Our expertise on Information, Information use, User behavior, and Design*
  - *Understanding of Relationships among Information, People, and Technology is crucial in solving complex problems.*
Benefits of iSchool Membership

- **Students and Industries pay attention to iSchool brand**
  - **KOREA Examples**
    - After becoming an iSchool member, the SKKU LIS department is booming with students (a highly sought after major now – high competition to get into)
  - **CHINA Examples**
    - iSchools (Wuhan, Nanjing, Renmin, and Sun Yat-Sen) are flourishing compared to other LIS schools
  - Increasing the PIE and enhancing library education (almost every field can benefit from information expertise)
Unit Naming (crucial)

- Proper naming of school or department is so important
  - We need to focus on our expertise of INFORMATION to have wider impact on society
  - It is very difficult to convince others of our expertise on information if our unit name has LIBRARY in it. It is proven all over the world (most US schools removed it from its unit name)
  - The name of Department or School should be
    - Information,
    - Informatics, or
    - Information Science
What is Informatics?

- The **study and practice of creating, storing, finding, manipulating and sharing information**
  - Different from EU concept of informatics

- The **strong technical background needed to develop solutions to the world’s information challenges.**

- The **Informatics is**
  - conceptual and practical,
  - academic and professional, and
  - focused on the human and humanistic dimensions of the design and use of information systems
Diverse Uses of Informatics

- Medical Informatics
- Health Informatics
- Social Informatics
- Bio Informatics
- Visual Informatics
- Legal Informatics
- Humanity Informatics
- …
Names of iSchool Units (NA)

- Information School
- Information
- Information Science
- Information Studies
- Computing and Informatics
- Computing and Information
- Informatics and Computing
- Information Science and Technology
- Information Systems and Management
- Communication and Information
- Computing
- Information and Library Science
Names of iSchool Units (AP)

- **China**
  - Information Management
  - Information Resource Management
- **Korea**
  - Library and Information Science (LIS)
  - LIS and Data Science
  - Convergence Science and Technology
- **Japan**
  - Library, Information, and Media Studies
- **New Zealand**
  - Computing and Mathematical Sciences
- **Singapore**
  - Information Systems
- **Australia**
  - Information Studies
  - Information
Names of iSchool Units (EU)

- LIS
- Humanities, Archives and Information Studies
- Information Management
- Information Studies
- Computer and Information Science
- Information Studies and Librarianship
- Information and Communication Studies
- Humanities Advanced Technology and Information
- Archivistics and LIS
- Media and Information
- Informatics
Different Models

- **Merging two schools or units**
  - Rutgers (Communication and Information Science)
  - Indiana (Computer Science and Information Science)
  - Pittsburgh (Computing and Information)
  - Drexel (Informatics and Computing)

- **One single unit with permission to hire faculty from diverse disciplines**
  - Syracuse University (Information Studies)
  - University of Washington (Information School)
  - University of Michigan (Information)
  - University of Illinois (Information Science)

- **My personal evaluation is that the second model worked much better.**
Approach to
iSchool Bachelor Program
BS in Informatics, BS in Info Management & Technology, BS in Information Science, or BS in Information

A major needed for 21st century
Essence for Successful BS Program

1. *Excellent curriculum*
2. *Excellent teachers (theoretical and practical)*
3. *Excellent capstone projects*
4. *Excellent industry partnership*
Excellent Curriculum

- Think of 4 components
  - Liberal arts
    - Reading, Writing, and Presentation
  - Core
    - Information organization, User behavior, Design thinking, Web and mobile technologies, Information systems and management, Information ethics
  - Specialization or Concentration
    - Data analytics (4-5 courses)
    - HCI and design (UX) (4-5 courses)
    - Information security (4-5 courses)
    - Project management (4-5 courses)
    - Information architecture (4-5 courses)
  - Integration
    - Capstone project 1: Project Planning
    - Capstone project 2: Project Implementation
Excellent Teachers

- Regular faculty
  - Focus on theoretical underpinnings of the field

- Clinical faculty
  - Recruiting stellar professor of practice is essential
  - iField needs to have strong clinical faculty that have in-depth experience of solving real and challenging problems.
  - Naming of clinical faculty
    - Lecturer, Senior Lecturer, and Principal Lecturer
    - Assistant Professor of Practice (PoP), Associate PoP, PoP
Excellent Capstones

- **Academic capstones**
  - Research-oriented *(strong research methods)*

- **Industry capstones**
  - Allowing a team project composed of a member from each concentration
  - Needs to build a reputation of solving real and challenging problems.
Excellent Industry Partnership

• **iBoard**
  ◦ *Must build a separate iSchool board who can be main advocates for your school or unit*

• **iAffiliates**
  ◦ *Build a industry partners that can benefit from hiring your students. Solicit a membership fee (10-20K Euro per year)*

• **iFair**
  ◦ *This should be a showcase of all the capstone projects.*
  ◦ *Invite your board and iAffiliate members to this fair*
  ◦ *This can also be a job interview fair for your students*
Approach to
iSchool Master Program
iSchool MS Degrees

- Information Management (MSIM)
  - University of Washington
  - Syracuse University
  - Most of China iSchools

- Information Science (MIS)
  - University of North Carolina at Chapel Hill
  - Pittsburgh

- Information (MI)
  - Rutgers
  - Michigan
Essence for Successful MS Program

1. Excellent curriculum
2. Excellent teachers (theoretical and practical)
3. Excellent capstone projects
4. Excellent industry partnership
Excellent Curriculum (MSIM)

- Think of 3 components
  - **Core**
    - Foundations: Information, Communication, Teamwork
    - Policy and Ethics in Information Management
    - Analytic Methods for Information Professional
    - Management and Strategic Leadership
  - **Specialization**
    - Business Intelligence
    - Data Science
    - User Experience
    - Information Consulting
    - Information Architecture
    - Information Security
  - **Integration**
    - Capstone project 1: Project Planning
    - Capstone project 2: Project Implementation
Approach to iSchool Doctoral Program
iSchool Doctoral Program

- **One Ph.D. with diverse topics**
  - Knowledge organization
  - User behavior and Social information seeking
  - Information and Data literacy
  - Data analytics and visualization
  - Social, Bio, Health, and Medical Informatics
  - Information and Data Ethics
  - UX Design and Information Architecture
  - Information Security

- **Different Ph.D.(s)**
  - Ph.D. in Information Science
  - Ph.D. in Data Science

- **Professional Doctoral Degree**
  - Syracuse iSchool
iSchool Governance
iSchool Application
iSchool Governance

- **Future Chairs Group**
  - Chair (2018-2019, **Sam Oh**, Sungkyunkwan University, Korea)
  - Chair-Elect (2020-2021, **Gobinda Choudhury**, Northumbria University, UK)
  - Past-Chair (2016-2017, **Ron Larson**, University of Pittsburgh, USA)

- **Executive Director**
  - **Michael Seadle**, Humboldt University, Germany

- **Executive Committee Members** (7)
  - **Sam Oh** (Chair), Sungkyunkwan University, Korea
  - **Gobinda Choudhury** (Chair-Elect), Northumbria University, UK
  - **Ron Larson** (Past-Chair), University of Pittsburgh, USA
  - **Michael Seadle** (Executive Director), Humboldt University, Germany
  - **Johannes Bauer** (Treasurer), Michigan State University, USA
  - **Shigeo Sugimoto** (AP-iSchool Chair), Tsukuba University, Japan
  - **Gobinda Choudhury** (EU-iSchool Chair), Northumbria University, UK
  - **Allen Renear** (NA-iSchool Chair), UIUC, USA
A New iSchool Board (13 Members)

- **Executive Committee Members (7)**
  - 3 Chairs, 3 Regional Chairs, 1 Treasurer

- **Additional Board Members (6)**
  - 3 from NA region
  - 2 from EU region
  - 1 from AP region

- This proportion will be revised every 3-4 years for even distribution.
iSchool Membership Dues (Current)

- Regular Members
  - Tier 1 member Due: US $5,000
  - Tier 2 members Due: US $1,000
  - Tier 3 members Due: US $500

- Associate members
  - Due: US $300
iSchool Membership Dues (Future)

- Regular Members
  - *Big Member Schools:* US $5,000/year
  - *Other Member Schools:* Aiming at $4,000/year
    - Pay what each school can at this stage
  - *New members:* US $4,000/year

- Associate members
  - *Due:* US $1,000/year
iSchool Membership Questions

1. Administrative Information
2. Research Information
3. Profile
Q1. Administrative Information

- What is the official name of the “school” (unit) and the university?
- Who is the head of the school?
- What is the title of the person who heads the unit?
- To whom does that person report?
- How many permanent professors does the school have?
- How many other teaching staff does the school have on the regular payroll?
- How many adjuncts (i.e., lecturers paid per class) does the school employ?
- How many external professors are actively involved with the school?
- How large is the bachelor’s program (if any)?
- How large is the master’s program?
Q2. Research Information

- When was the Ph.D. program established?
  - How many students have received Ph.D.’s in the last 3 years (annually)?
  - Please list the 5 top student projects from your school within the last few years (recently completed or in progress).

- How much research money has the school received in the last 3 years (annually)?
  - Where does funding typically come from?

- Please list 5 significant research areas in your school within 2-3 sentences each.

- Where do faculty typically publish? (3 or 4 examples)

- Please list 5 conferences that your faculty or doctoral students attend regularly.
Q3. Profile

- Please describe briefly why you want to join the iSchools and what you feel your institution can contribute towards establishing and advancing the identity of iSchools and demonstrating their distinction from other professional disciplines.
Concluding Remarks

- “iSchool” is an excellent brand.
  - Information should be in the name of school or department
- Exciting undergraduate program that makes industry excited.
- Unique approach to Data Science (future Chief Data Officer)
- iPerspective and open mind – can collaborate with any discipline. Any discipline can benefit from information expertise.
- Sizable faculty and students so interdisciplinary approach can bear fruits.
- Diverse faculty coming from many disciplines
- Faculty of One – no faction
- Diverse and strong board members
- Innovative staff who engages in employer communities
- Global exchange programs (students and faculty)
  - SKKU has 7 NA and 2 EU iSchool Partners (Working nicely)
Potential Roadmap I for LNU

- Establishing a soft *iSchool* Unit
  - **Undergraduate**
    - BS in Information Science
    - BS in Interactive Media and Web Technologies
    - BA in Library and Information Science
  - **Graduate**
    - MA in Cultural Sciences
    - MS in Social Media and Web Technologies
    - MS in Information Management
    - MS in Library and Information Science
    - MS in eHealth
    - MA in Digital Humanities
    - MS in Data Science
  - **Doctoral**
    - Ph.D. in Computer and Information Science
    - Ph.D. in GRASCA
    - Ph.D. in Information Science
Potential Roadmap 2 for LNU

• Establishing ‘Information School of LNU’
  ◦ Undergraduate
    • BS in Information Science
    • BA in Library and Information Science
  ◦ Graduate
    • MS in Information Management
    • MS in Library and Information Science
    • MA in Digital Humanities (Jointly with others)
    • MS in Data Science (Jointly with other units)
  ◦ Doctoral
    • Ph.D. in Information Science
Potential Roadmap 3 for LNU

- Establishing ‘Faculty of Information’
  - All the integration and interdisciplinary work (campus-wide) can take place at this faculty unit from **iPerspective**
  - Inviting all the units that can benefit from working closely with the unit that has expertise on data and information, its uses, how people use or fail to use them, and the role of technology that facilitates its uses.
  - Joint appointments of professors are recommended
  - **INFORMATION** is the center of universe.
  - **iSchool** should be the center of **integrating all disciplines** on campus.
Any Questions?