PART 1: REVIEW OF ACTIVITIES

1.1 Short review of activities by the Institute for the past twelve months. The following list shows domestic conferences, international conferences and workshops sponsored by the KIISE and major publications made during the period of July 2007 ~ June 2008.

1.1.1 Conferences and Workshop

1.1.1.1 General Assembly and Semiannual Joint Conferences

- Regular General Assembly and Fall Conference (October 2007)

- Extraordinary General Assembly and Korea Computer Congress 2008 (June 2008)

1.1.1.2 International Conferences
- The 12th Asia-Pacific Computer Systems Architecture Conference (August 2007)

- The First German-Korea Workshop on Machine Learning in Life Sciences (August 2007)

- 2nd Korean-Japan Joint Workshop on Pattern Recognition (October 2007)

- International Symposium for IT Accord (November 2007)


- The International Conference on Information Networking 2008 (January 2008)

1.1.1.3 Symposiums sponsored by Societies and Special Interest Groups(SIGs) of the KIISE

* Societies (3)
  - Databases
  - Information Networks
  - Software Engineering

* SIGs (14)
- Computer Science Education Systems
- College Computer Science Education
- Artificial Intelligence
- Programming Languages
- Computer Systems
- High Performance Computing
- Theoretical Computer Science
- Human Language Technology
- Human and Computer Interaction
- Computer Vision and Pattern Recognition
- Computer Graphics
- Information Security
- Bioinformation Technology
- Community Computing

1.1.1.4 Domestic Competitions by the KIISE

- Student Paper Contest (November 2007~April 2008)
- Korean Olympiad in Informatics (July 2007)
- Collegiate Programming Contest for ACM-ICPC (November
1.1.1.5 Participation to International Competition

- The 19th International Olympiad in Informatics (August 2007)

1.1.2 Publications

1.1.2.1 Regular Publications

- Communications of the KIISE (monthly)


- Journal of the KIISE: Computer Systems and Theory (bimonthly)

- Journal of the KIISE: Software and Applications (monthly)

- Journal of the KIISE: Computing Practices and Letters (bimonthly)

- Journal of the KIISE: Databases (bimonthly)

- Journal of the KIISE: Information Networking (bimonthly)

1.1.2.2 Newsletters

- 3 Societies and 14 SIGs published newsletters
1.2 Officers

- President of the KIISE (2008. 1 ~ 2008. 12)
  Prof. Yanghee Choi Ph.D. Seoul National University
  E-mail : yhchoi@snu.ac.kr

- IFIP General Assembly KIISE Representative
  Prof. Dong Yoon Kim Ph.D. Ajou University
  E-mail : dykim@ajou.ac.kr

- President elect of the KIISE (2009. 1 ~ 2009. 12)
  Prof. Sungjo Kim Ph.D. Choongang University
  E-mail : sjkim@cau.ac.kr

Introduction and Progress Report

(http://www.seoulaccord.org)

**Why** (Motivation)?

To establish a system to guarantee substantial equivalency of accredited educational programs for computing and ICT profession amongst the member countries that will lead to enhanced mobility across transnational boundaries.

**Who** (Current as of September, 2008)?

- Participating Countries and Representative Organizations
  - Australia : ACS
  - Canada : CIPS
  - Japan : JABEE
  - Korea : ABEEK
  - UK : BCS
  - USA : ABET
- New Member Admittance (to be unanimously approved for by then-existing member signatories)
- Organization (until the launch of the Accord)
## Steering Committee & Working Group Members

<table>
<thead>
<tr>
<th>Participants</th>
<th>WG1 (Rules and Procedures)</th>
<th>WG2 (Scope and Standard)</th>
<th>WG3 (Finance and Operations)</th>
<th>Primary Contact</th>
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<tbody>
<tr>
<td><strong>Australia</strong></td>
<td>Bob Hart</td>
<td>Bob Hart</td>
<td>Sam Burrell</td>
<td>Bob Hart</td>
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<td>Manager</td>
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<td><strong>Canada</strong></td>
<td>Ken Takagaki</td>
<td>Ken Takagaki</td>
<td>Sylvia Osborn</td>
<td>Gina van Dalen</td>
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<td>Director of Accr. CIPS</td>
<td>Director of Accr. CIPS</td>
<td>Chair CSAC</td>
<td>Manager Pro. Stan. CIPS</td>
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<tr>
<td>Japan</td>
<td>Hiroshi Fukusaki</td>
<td>Executive Director</td>
<td>JABEE</td>
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<td></td>
<td>Katsuhiko Kakehi</td>
<td></td>
<td>IPSJ</td>
<td>(Chair)</td>
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<tr>
<td>Korea</td>
<td>Sung Jo Kim</td>
<td>Vice President</td>
<td>ABEEK</td>
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<td>Woo Young Yoon</td>
<td>Chair, PC</td>
<td>ABEEK</td>
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<tr>
<td>UK</td>
<td>Sunil Vadera</td>
<td>AAC, BCS</td>
<td>BCS</td>
<td>Head of Education</td>
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<tr>
<td></td>
<td>Elizabeth Friend</td>
<td>Head of Education</td>
<td>BCS</td>
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<tr>
<td>USA</td>
<td>G. Peterson</td>
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<td>Joe Turner</td>
<td>Executive Comm.</td>
<td>ABET CAC</td>
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<td>Stu Zweben</td>
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<td>Shona Minamino</td>
<td>Secretary</td>
<td>Int'l JABEE</td>
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How?
To achieve Seoul Declaration Goals by overcoming Main Obstacles while adhering to Guiding Principles

◆ Seoul Declaration Goals
  - To promote mutual recognition of academic programs that satisfy the entry-level educational requirements for computing & ICT professionals amongst member countries or economies
  - To assure the quality of entry-level professionals that will lead to:
    - General advancement of the computing field
    - Improved professional practice

◆ Main Obstacles
  - Reconciling the following differences amongst member countries:
    - The education system
    - The accreditation system
    - The accreditation body
    - Disciplines covered by the accreditation
    - Licensing & registration

◆ Guiding Principles
  - The Accord will be based on mutual respect for the autonomy of its signatories.
  - There will be transparency to the accreditation systems of the signatories and to the educational systems to which the accreditation systems are oriented.
  - The signatories will be autonomous and free from governmental or other external influence on the accreditation processes.
  - The Accord should avoid any perception that it is arbitrary and capricious in its practices and policies, including admitting members and applying rules of membership.
  - The Accord will promote and develop best practices for the improvement of computing education.
• The Accord should continually review its policies and procedures to ensure that they are relevant and reliable indicators of the future of computing and IT-related technologies.

• The members of the Accord will be accreditation agencies, not countries.

What, When and Where?

- **The Seoul Accord**, for computing professionals, endeavours to play a role similar to the following accreditation accords for engineering:
  - **The Washington Accord** for professional engineers, 1989
  - **The Sidney Accord** for engineering technologists, 2001
  - **The Dublin Accord** for engineering technicians, 2002

- **Seoul Declaration**
  - November 5th–6th, 2007
  - International Symposium on Computing Accreditation, Seoul, Korea
  - Establishment of the following agreements
    - Sharing of the following information amongst the participating member organizations
      - Accrediting organization
      - Disciplines covered (Scope)
      - Accreditation criteria (Standard)
      - Structure of the education system
      - Licensing and registration
    - Adoption of Seoul Declaration statement
  - The signatories agreed to participate in a process for establishing an Accord [to be called The Seoul Accord]
    - The signatories further agreed to meet to receive and consider progress reports by December, 2008 in Seoul, Korea

- **Interim Report and Schedule**

- **Schedule of Events** (Dec. 2007 – June 2008)
  - Jan. 2008: Submission of WG nominations
- Feb. 2008: WG Terms of Reference Notifications
- June 2008: Interim Meeting
- Oct. 2008: WG Reports Due
- Dec. 2008: Steering Committee Meeting (Launch of The Seoul Accord)


<table>
<thead>
<tr>
<th>Month</th>
<th>Major Works</th>
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<tbody>
<tr>
<td>December, 2007</td>
<td>Beginning of the Process for Establishment of The Seoul Accord</td>
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<tr>
<td>January, 2008</td>
<td>Working Group Nominations</td>
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<td>February, 2008</td>
<td>TOR(Terms of Reference) Submission by Each Working Group</td>
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<td>[Exhibit 2]</td>
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<td>March – May, 2008</td>
<td>Working Group Discussions</td>
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<tr>
<td>June 27–28, 2008</td>
<td>Interim Meeting (in Seoul)</td>
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<td>[Exhibit 3]</td>
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<tr>
<td>July – October, 2008</td>
<td>Working Group Discussions</td>
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<tr>
<td>October, 2008</td>
<td>Working Group Reports Due</td>
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</table>
December, 2008
Steering Committee Meeting for launching of The Seoul Accord

[Note: The progress on the original schedule, as set in December of 2007, is marked in red and thus far, The Seoul Accord is right on schedule!]

◆ [Exhibit 1: Seoul Declaration]
.....The Signatories have agreed on a shared vision of establishing an Accord on the accreditation of educational programs in the computing and IT-related disciplines.....
SEUL DECLARATION

The signatories have exchanged information on, and have examined their respective processes, policies and procedures for granting accreditation to computing and IT-related programs, and have concluded that there exists a need as well as potential benefits in promoting transnational recognition of substantial equivalency of academic programs.

The signatories have agreed on a shared vision of establishing an Accord on the accreditation of educational programs in the computing and IT-related disciplines:

1. Assuring the quality of entry-level professionals can contribute towards general advancement of the computing and IT-related disciplines and cultivate improved professional practice.
2. There are potential benefits for all countries or economies in promoting mutual recognition of academic programs that satisfy the entry-level educational requirements for IT professionals.
3. We therefore seek to establish a system of substantial equivalency of educational programs in the computing and IT-related disciplines amongst participating organizations that could lead to international recognition of entry-level academic standards for IT professionals.

The signatories agree to participate in a process for establishing an Accord [to be called the Seoul Accord] to achieve the above objectives.

The signatories have further agreed to meet to receive and consider progress reports by December, 2008 in Seoul, Korea.

Agreed on November 6, 2007
A. Joseph Turner  
ABET

Robert Hart  
Australian Computer Society

Sunil Vadera  
British Computer Society

Ken Takagaki  
Canadian Information Processing Society

Hiroshi Fukusaki  
Japan Accreditation Board for Engineering Education

Sung Jo Kim  
Accreditation Board for Engineering Education of Korea

Cosigner

Seunghaik Yang  
Chair of the Organizing Committee  
International Symposium on Accreditation of Educational Programs in Computing and IT-related Disciplines
[Exhibit 2: Terms of Reference (TOR) Progress Report]

Terms of Reference

- **WG1: Rules and Procedures**
  - To develop and propose rules and procedures
  - Specific issues to be addressed
    - Organization and decision making
    - Membership and admissions
    - Periodic monitoring and verification
    - Member obligations
  - Collaboration with other accords

- **WG2: Scope and Standard**
  - To develop scope and standard on academic requirements
  - Specific issues to be addressed
    - Scope
      - To determine academic disciplines (CS, CSE, SE, IT, IS, MIS, Multimedia, etc.) covered
      - To determine the degree levels covered
    - Standard
      - Differences in educational systems and attainment levels
      - To develop standards on academic requirements → To be outcomes-based → To develop graduate attributes

- **WG3: Finance and Operations**
  - To develop strategies for financing and operations
  - Specific issues to be addressed
    - Financing of costs associated with the initial activities of the Accord
    - Contribution cost of becoming and maintaining membership
- Contributions of staff and volunteer time
- Direct and overhead cost
- The Secretariat
  - Terms of provision and duration of the Secretariat services
  - Supervision of the Secretariat, reporting arrangement with the General Assembly
- Other operational matters
  - Formation and operation of committees and working groups
  - Membership, appointment of officers, and staffing of the committees or working groups

- [Exhibit 3: Interim Meeting Progress Report]

- **WG1: Rules and Procedures**
  - Deliverable: An initial set of rules and procedures for the Accord.
  - Process
    - Produce a draft set of rules and procedures that can be submitted to the members for comment and approval in principle by October 15th, 2008
    - Produce a final document for adoption in December
    - Responsible person: Working Group Chair

- **WG2: Scope and Standard**
  - Deliverable: An initial set of attributes defining the scope and standards of programs covered by the Accord
  - Process
    - ABEEK and WG2 Chair will produce a proposed document for WG discussion by August 1st, 2008
    - WG will produce a draft for circulation to all members for comment and approval in principle by October 15th, 2008
    - WG will produce a document for adoption in December
- Responsible person: Working Group Chair
- Graduate Attributes: A Draft is being drawn up
- Academic Education: typically four years of post-secondary study
- Hard skills
  - (1) knowledge of computing sciences
  - (2) problem analysis
  - (3) design/development of solutions
  - (4) modern tool usage
- Soft skills
  - (5) individual and team work
  - (6) communication
  - (7) computing professionalism and society
  - (8) ethics
  - (9) life-long learning
- Special skills
  - (10) project management and finance

- WG3: Finance and Operations
  - Deliverable: Recommendations on finance and operations sufficient for beginning the Accord in December
  - Process
    - Produce draft recommendations to circulate to all members for comment and approval in principle by September 15th, 2008
    - Refine recommendations as needed and communicate to WG 1 for incorporation into rules and procedures by November 1st, 2008
    - Responsible person: Working Group Chair

- Interim Meeting Resolutions:
  - Seek Affiliation with the International Engineering Alliance (IEA)
    - The signatories of the Seoul Declaration recognize the value of affiliation with other international accords
dedicated to quality assurance of education in their respective fields

◆ Representatives of The Seoul Accord will propose at IEM2009 that a fourth accord—The Seoul Accord—be accepted as the international agreement recognizing the substantial equivalence of educational programs in computing and information and communication technology (ICT) in order to facilitate the mobility of computing and ICT professionals.

For Launching of The Seoul Accord, we must have, by December, 2008

◆ The stated deliverable from each Working Group, to which we can agree at least in principle
◆ We must be comfortable enough with the deliverables to be confident that needed modifications can be completed after establishment of the Accord.

◆ Planned Launch of The Seoul Accord
◆ Time: December 6th, 2008
◆ Place: Seoul, Korea