Helsinki-Aalto Center for Information Security HAIC

N. Asokan, Valtteri Niemi
Meet-and-Greet, October 6, 2017
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>16:00-16:20</td>
<td>N. Asokan, Valtteri Niemi, Eija Kujanpää: Welcome and HAIC first year report</td>
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<tr>
<td>16:20-16:35</td>
<td>Mika Ståhlberg and Alexey Kirichenko, F-Secure</td>
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<td>16:35-16:45</td>
<td>Dean Jouko Lampinen</td>
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<td>16:45-17:00</td>
<td>Pauliina Snellman, Nixu</td>
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<td>17:00</td>
<td>Open discussion</td>
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<td>Dinner and sauna</td>
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What is HAIC?

Joint strategic initiative by Aalto University and University of Helsinki

Set up in June 2016

Initial mission: attract top students to Helsinki and train them in information security

Backdrop: (a) Introduction of tuition fees (b) End of NordSecMob
Fundraising 2017

Deans at UH and Aalto committed to tuition waivers to HAIC scholars selected

Outreach to industry: F-Secure & Intel became donors; Nixu became a supporter

Dean/SCI at Aalto offered additional funding: used to offer “honours contracts”
Role of HAIC donors/supporters

Opportunities to
• interact with students
• give feedback on HAIC and on infosec education and research at Aalto/UH

How you can use these opportunities:
• offer summer internships and thesis positions
• influence what students learn
• ...

HAIC Scholars 2017: Aalto University

50 applicants; 11 admission offers; 5 double degree students from ITMO University

HAIC scholar offers: 3 living cost scholarships, 2 HAIC honours contracts

Accepted HAIC scholars:

<table>
<thead>
<tr>
<th>Name</th>
<th>Nationality</th>
<th>Education</th>
<th>Tuition</th>
<th>Support</th>
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</thead>
<tbody>
<tr>
<td>Gauhar, Zaheer Ahmed</td>
<td>Pakistan</td>
<td>Pakistan</td>
<td>waiver</td>
<td>scholarship</td>
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<tr>
<td>Khan, Muhammad Abdullah</td>
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<td>Pakistan</td>
<td>waiver</td>
<td>scholarship</td>
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<td>Kulhavy, Martin</td>
<td>Czech</td>
<td>Austria</td>
<td>-</td>
<td>honours</td>
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HAIC scholars: University of Helsinki

Dept of Computer Science has TWO Master’s programmes in the scope of HAIC:

• Master’s Programme in Computer Science is the primary one
  • Includes Secure Systems under Networking and Services study line
    • 110 applications → 61 to academic evaluation → 39 selected
    • a UH scholarship was granted to one student but finally the student did not join (and neither did the substitute)
    • One tuition waiver was granted instead

• Master’s Programme in Data Science
  • 85 applications → 54 advanced to academic evaluation → 22 selected
Additional initiatives
HAIC Research arm at HIIT

Invited to become a HIIT program (led by Prof. Valtteri Niemi)

One postdoctoral researcher at UH (Prof. Niemi) and Aalto (Prof. Aura)
Cyber Security Base with F-Secure (UH)

MOOC (Massive Open On-line Course) arranged by UH and F-Secure
First edition: October 2016 – May 2017
• 277 000 views from 50 000+ different viewers
• 5000 students enrolled
• 1000 students completed at least one of the 6 parts of the course series
• No entrance fee
• Main architects: Samu Varjonen, Arto Hellas

Second edition begins 31 October 2017
SECCLO – Master’s programme in Security and Cloud Computing

New Erasmus Mundus Joint Master Degrees program (120 ECTS)

- **University partners**: Aalto, DTU, NTNU, KTH, Tartu and Eurecom
- **Associate members**: F-Secure Corporation, Finland, VTT Technical Research Centre of Finland, Intel Labs Europe, Germany, Nokia Bell Labs, France, Cybernetica AS, Estonia, GuardTime, Estonia
- **Budget**: ~3 M€ over 3 years
- **Students will spend first year Aalto, next 6 months at partner university + thesis**
- **Expected annual intake**: ~20 with full living cost and tuition scholarships

Reviewers explicitly commented HAIC and scholarships funded by industry

- **Commission expects HAIC to demonstrate continued industry funding**

http://secclo.aalto.fi/

New cryptology professor at Aalto

Prof Chris Brzuska will start in April 2018
Highlights of plans for next year

SECCLO

Need for industry funding to continue
• For non-SECCLO students, for some SECCLO students (demonstrating to EC that the program has independent support), preparing for post-SECCLO years

HAIC public outreach program
Dean Jouko Lampinen
Aalto/SCI
HAIC public outreach

New public outreach program for
- Studia Generalia lectures
- Short courses on topical themes for industry and general public
- Video lectures of regular courses
- ...

Oct 1: Dean/SCI funds a new Deputy Director for HAIC tasked with this mission

Dr. Andrew Paverd