SNU College of Engineering

Summer University 2018

with the University of Applied Sciences and Arts, Western Switzerland
CoE – HEIG-Vd Summer University Program

- bilateral program between the Dept. of Computer Science and Engineering and the University of Applied Sciences and Arts, Western Switzerland (HEIG-Vd)

- location alternates between the two countries (2016 – Switzerland, 2017 – Korea, 2018 – Switzerland, 2019 – Korea, …)

- four lectures on selected topics in Computer Science
  - 4 x 20 lessons of 45 minutes, i.e. 60h total

- participants
  - 10 third/fourth-year undergraduates from both countries
  - open to all SNU CoE students with a sufficient background in Computer Science and Engineering
  - sufficient proficiency in English required
Summer University 2018 – Overview

- **Location**: HEIG-Vd, Yverdon-les-Bain

- **Date**: August 10 to 24, 2018

- **Participants SNU CoE**
  - lecturers: Prof. Srinivas Satti, Prof. Jae W. Lee
  - 10 undergraduates

- **Lecture topics**
  - Space-efficient data structures and algorithms (Prof. Srinivas Satti, SNU)
  - How Modern Processors Work (Prof. Jae W. Lee, SNU)
  - Machine Learning (Prof. Stephan Robert, HEIG-Vd)
  - Introduction to Ethical Hacking (Prof. Alexander Karlov, HEIG-Vd)

- **Grade/Credits**
  - classes are graded.
  - With a passing grade, 3 credits can be obtained in the next semester ("공학지식의 실무 응용")
Summer University 2018 – Goal

- This is not going to be (only) a nice paid vacation!

- We want to
  - foster scientific and cultural exchange of our students
  - enable you to experience first hand different countries and customs
  - allow you to build networks and connections

- We expect you to
  - to participate actively and work hard
  - to exchange with the Swiss students

- In return
  - we pay almost the entire trip for you
  - and you get credits
# Summer University 2018 – Program

<table>
<thead>
<tr>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 1</td>
<td></td>
<td></td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Swiss National Day</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>August 6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Arrival</td>
<td>Opening</td>
<td>Social Event</td>
<td></td>
<td>Field Trip</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses Week 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Field Trip</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
<th>25</th>
<th>26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses Week 2</td>
<td>Closing Ceremony</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Summer University 2018 – HEIG-Vd

- HEIG-Vd is the School of Business and Engineering
  - "Haute Ecole d'Ingénierie et de Gestion du Canton de Vaud"
  - branch of the University of Applied Sciences and Arts, Western Switzerland
  - one of (very few) universities in Switzerland
  - very practical, lots of collaboration with industry
  - offers Bachelor and Master degrees
  - [http://www.heig-vd.ch/international](http://www.heig-vd.ch/international)
Summer University 2018 – Location Overview
Summer University 2018 – Location

- HEIG-Vd is located in Yverdon-les-Bain
- Classes and accommodation are located in Yverdon
Summer University 2018 – HEIG-Vd

- The HEIG-Vd Computer Science department is located in the St-Roch campus
Summer University 2018 – Accommodation

- **FMEL, Fondation Stähli, Yverdon**
  - Student and faculty housing in Yverdon-les-Bains
  - Deposit per room: CHF 100 (returned when moving out)
  - You cook your own breakfast and dinner
    - kitchen and kitchen utensils available
Summer University 2018 – Cost

- **Paid for by the College of Engineering and HEIG-Vd**
  - flight
  - accommodation
  - lunch during class days
  - local transportation

- **You need to take care of**
  - travel insurance
  - breakfast and dinner, lunch on weekends
  - CHF 100 deposit for accommodation ("방 보증금")
  - private expenses
Summer University 2018 – Selection Process

- Eligible to apply
  - undergraduate students of the College of Engineering
  - in principle third and fourth-year students, exceptions may be made

- Selection process
  - sufficient background in Computer Science and Engineering classes
  - sufficient proficiency in English to follow lectures
  - grades and statement
  - participation in SU17 is a plus

- Application form
  - on CoE and CSE homepage

**Application deadline: Monday, May 7, 17:00**
Summer University 2018

More Information

http://www.stephan-robert.ch/summer-university/2018-summer-university/

Questions? Contact

- Ms. Heesun Kim, 39-229, kavkr@snu.ac.kr
- Prof. Bernhard Egger, bernhard@csap.snu.ac.kr