Excursion: Applications of Computer Vision

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Organisation of the Excursion

- 2 groups (Hospital, Museum)
- Every group has an excursion topic
- You have to choose one group
- You have to visit the excursion of the chosen group

**General Hospital Vienna (AKH), Computational Imaging Research Lab**

https://www.wien.gv.at/gallery2/m53/main.php?g2_view=core.DownloadItem&g2_itemId=13539

**Kunsthistorisches Museum Wien (KHM), Photographer’s Studio**

http://press.khm.at/pr/khm/allgemeine-informationen/
Organisation of the Excursion

- 1 Document per group
  - 3 pages per student including references

- Content:
  - List of participants and functions (who wrote what)
  - Abstract (editor)
  - Problem statement and solution
  - Presentation slides

- Presentation (max. 8 minutes per student)
Organisation of the Excursion

- If you have not attended the lecture on 13th of November 2017
  - Please write an e-mail to licandro@caa.tuwien.ac.at with your name, student number and e-mail contact to register for the excursion as soon as possible.

- You have to visit the excursion of the group you have been assigned to. The visit of the alternative excursion is optional, but a registration via e-mail is required in advance.
Excursion - Museum

- Group Museum
  - Date: 04.12.2017, Time: 13:00 – 16:00
  - Meeting point: 12:50 (s.t.), Burgring 5, 1010 Vienna, in front of the side entrance.
Excursion Museum

- Computer Vision Applications in the Museum
  - Digital photography and image processing
  - Stitching
  - Infrared and x-ray acquisition
  - Multi-modal registration
  - 3D scanning

http://bilddatenbank.khm.at/viewArtefact?id=87080

http://press.khm.at/fileadmin/content/Presse/Jahrespress
ekonferenz/Jahresbericht_14_KHM_Druck.pdf
Excursion Hospital

- **Group Hospital**
  - Date: 07.12.2017, Time: 13:00 – 16:00
  - Meeting point: 12:45 (s.t.), Währingergürtel 18-20, 1090 Vienna, AKH main entrance
  - MRI Scanner visit, CIR-Lab Tour
Excursion Hospital

- Computer Vision Applications in the Hospital
  - Radiology Explorer
  - Deep Learning in Medical Imaging
  - Imaging Biomarkers
  - Longitudinal Modelling
  - Brain and Neuroscience
  - Ophtalmic Image Analysis

- Ultrasound

- X-Ray Mammography

- Histological Imaging

- MRI
  - https://pixabay.com/de/mri-magnetresonanz-r%C3%B6ntgen-sch%C3%A4del-782459/
Tasks

- Find and describe computer vision applications
- Partition the responsibility within the group
  - Editor
  - Presentation master
- Present the results
  - Written document
  - Presentation
<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.11.2017</td>
<td><strong>1. Excursion exercise</strong>: Details on excursion, work plan, work flow, preparations</td>
</tr>
<tr>
<td>04.12.2017</td>
<td><strong>2. Exkursion exercise</strong>: Excursion Group Museum (13:00 – 16:00) Excursion Group Hospital (13:00 – 16:00)</td>
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<tr>
<td>07.12.2017</td>
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<tr>
<td>08.01.2018</td>
<td><strong>3. Excursion exercise</strong>: Discussion of the 1st document, improvements, planning of presentation</td>
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<tr>
<td>15.01.2018</td>
<td><strong>4. Excursion exercise</strong>: Discussion of final document and presentation</td>
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<td>22.01.2018</td>
<td><strong>Final Presentations</strong>:</td>
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<tr>
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<td>1 Document submission</td>
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<td></td>
<td>1 Presentation submission</td>
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</tbody>
</table>

**DEADLINE 1st DRAFT**
05.01.2018
Submission to group editor
Thank you
licandro@caa.tuwien.ac.at