Introduction to CSE Department

Dit-Yan Yeung
Chair Professor and Head
Department of Computer Science and Engineering
Research and Technology Forum 2020

Introduction
The Research and Technology Forum 2020 of the Department of Computer Science and Technology aims at providing industry partners a better understanding of perspective research areas of the department and learn about different collaboration channels provided by Huawei. Throughout the event, some ongoing research projects conducted by the faculty would be showcased and industry partners may also meet with individual faculty to discuss possible collaboration opportunities.

Event Details
Date: 28 May 2020 (Wednesday)
Time: 10:00 am - 12:00 noon (HKT) (Please sign in at 10:30 am)
Venue: Online via Zoom Meeting (A confirmation with Zoom link will be sent to email to confirm the registration)
Register: Apply Online
Registration Deadline: 25 May 2020 (Wednesday)

Tentative Program
Time (HKT) Event Details
10:00 am - 10:15 pm Introduction by Huawei Technology Transfer Center (TTC), HKUST
10:15 am - 10:30 pm Research and Project Presentation by Huawei Research and Development (R&D) and Huawei Affiliated Labs
10:30 am - 12:00 noon Research and Project Presentation by CSE Professors
12:00 noon onwards Q&A Session and Meeting with individual CSE Professor

Topics
Topics to be presented (more information is available on request)

Research Areas

<table>
<thead>
<tr>
<th>Professor</th>
<th>Topics to be Presented</th>
<th>Research Areas</th>
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</thead>
<tbody>
<tr>
<td>Prof. Li CHEN</td>
<td>Knowledge Graphs</td>
<td>AI &amp; DB</td>
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<tr>
<td>Prof. Y. Chen</td>
<td>Exploring the Design of 2D Sensors</td>
<td>AI &amp; VSL</td>
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<tr>
<td>Prof. M. Chen</td>
<td>Fair Allocation of Multiple Resources</td>
<td>TH</td>
</tr>
<tr>
<td>Prof. J. Chen</td>
<td>Artificial Intelligence and Machine Learning</td>
<td>HCI</td>
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<tr>
<td>Prof. Q. Liu</td>
<td>Deep Learning Enhancements</td>
<td>AI</td>
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<tr>
<td>Prof. J. Wang</td>
<td>Understanding User Preference on Big Data</td>
<td>DB</td>
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<tr>
<td>Prof. Z. Zhang</td>
<td>Machine Learning for Online Learning</td>
<td>AI</td>
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Research and Technology Forum 2021

Introduction
The Research and Technology Forum 2021 of the Department of Computer Science and Technology aims at providing industry partners a better understanding of perspective research areas of the department and learn about different collaboration channels provided by Huawei. Throughout the event, some ongoing research projects conducted by the faculty would be showcased and industry partners may also meet with individual faculty to discuss possible collaboration opportunities.

Event Details
Date: 28 January 2022 (Thursday)
Time: 10:00 am - 12:00 noon (HKT) (Please sign in at 10:30 am)
Venue: Online via Zoom Meeting (A notification with Zoom link will be sent to email to confirm the registration)
Register: Apply Online
Registration Deadline: 24 January 2022 (Tuesday)

Tentative Program

Time (HKT) Event Details
10:00 am - 10:15 pm Welcome Remarks by the Dean of Engineering
10:15 am - 10:30 pm Introduction by Huawei Technology Transfer Center (TTC), HKUST
10:30 pm - 10:45 pm Research and Project Presentation by Huawei Research and Development (R&D) and Huawei Affiliated Labs
10:45 pm - 12:00 noon Research and Project Presentation by CSE Professors

Topics
Topics to be presented (more information is available on request)

Research Areas

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<tr>
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<tr>
<td>Prof. Li CHEN</td>
<td>Data Management for Efficient and Effective Data Processing</td>
<td>AI &amp; DB</td>
</tr>
<tr>
<td>Prof. T. Kong</td>
<td>Computer Vision: Efficiency, Hardware-Friendly and Application</td>
<td>AI &amp; VSL</td>
</tr>
<tr>
<td>Prof. X. Wang</td>
<td>Secure and Efficient Tools for Cloud and Blockchain Applications</td>
<td>TH</td>
</tr>
<tr>
<td>Prof. J. Wang</td>
<td>Improving Softwarization and Efficiency Through Programming Language and Compiler Innovations</td>
<td>HCI</td>
</tr>
<tr>
<td>Prof. Z. Zhang</td>
<td>Autonomous Systems with AI</td>
<td>AI</td>
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<tr>
<td>Prof. S. Zhou</td>
<td>3D Content Understanding and Rendering</td>
<td>DB</td>
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HKUST and School of Engineering

Established 1991

School of Engineering
School of Science
School of Business and Management
School of Humanities and Social Science
Interdisciplinary Programs Office
HKUST Fok Ying Tung Graduate School
HKUST Institute for Public Policy
Undergraduate and Postgraduate Students (as of 2020.10)

Undergraduate Students
- CS Majors (BEng, BSc): 713
- Joint Programs (BEng, BSc): 499

Postgraduate Students
- Research Programs (MPhil, PhD): 218
- Taught Programs (MSc): 361

Total Undergraduate Students: 1212
Total Postgraduate Students: 589
Faculty and Staff (as of 2021.01)

- Tenure-Track Faculty (>0% appointment)
- Teaching-Track Faculty
- Research Faculty
- Teaching Support Staff
- Administrative Staff
- System Staff
- Communication Tutors
Major Research Areas

- Artificial Intelligence (AI)
- Cybersecurity (SEC)
- Networking and Computer Systems (NE)
- Software Engineering and Programming Languages (SE)
- Data, Knowledge and Information Management (DB)
- Human-Computer Interaction (HCI)
- Theoretical Computer Science (TH)
- Vision and Graphics (VG)
Joint Research Labs with Companies

- Microsoft
- HUAWEI
- WeBank
- DiDi
- NAVER
- xiao-i
- MEGVII
- Tencent
- Xunlei
Research Institutes

Sino Software Research Institute
Prof Shing Chi Cheung (Director)

Big Data Institute
Prof Lei Chen (Director)

Robotics Institute
Prof Michael Wong (Director)

GREAT Smart Cities Institute
Prof Hong Kam Lo (Director)
Thank You