Introduction

Dit-Yan Yeung
Chair Professor and Head
Department of Computer Science and Engineering
HKUST’s Mission & Vision

MISSION & VISION

Mission
To advance learning and knowledge through teaching and research, particularly:

• in science, technology, engineering, management and business studies; and
• at the postgraduate level;

To assist in the economic and social development of Hong Kong.

Vision
To be a leading university with significant international impact and strong local commitment.
Research and Technology Forum Series

Research and Technology Forum 2022

Introduction
The Research and Technology Forum 2022 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 HKUST. Throughout the event, some ongoing research projects conducted by our faculty would be showcased and participants may also learn more about the department.

Event Details
Date: 4 March 2022 (Friday)
Time: 10:00 am - 12:00 noon HKT (Please sign in at 9:50 am)
Venue: Online via Zoom Meeting (A notification with Zoom link will be sent via email to confirm the registration)
Registration: Register Online
Registration Deadline: 27 February 2022 (Sunday)
Research Areas

- Artificial Intelligence (AI)
- Cybersecurity (SEC)
- Networking and Computer Systems (NE)
- Software Engineering and Programming Languages (SEPL)
- Data, Knowledge and Information Management (DKI)
- Human-Computer Interaction (HCI)
- Theoretical Computer Science (TH)
- Vision and Graphics (VG)
Some Research Projects

- NLaaS in the Wild: Workload Analysis and Scheduling in Large-Scale Heterogeneous GPU Clusters
- Spatial Trajectory Computing
- Searching on Encrypted Data
- Underwater SLAM for Marine Robot Navigation
- Federated Learning Systems: Performance Profiling and Optimization
- Pushing the Limit of IoT Sensing
- Fostering Engagement in Technology-Mediated Stress Management with Biofeedback
- Mepidoc: A Writing Assistant for Mental Health Peer Support
- Understanding Users’ Preference on Big Data
- Learning to Synthesize Images
- Robo-lawyer: A Contract Generator Chatbot
- Pinpoint: Finding Software Vulnerabilities in Real World Programs
Joint Research Labs with Companies
Research Institutes

Big Data Institute
Prof. Li Chao (Director)

Biotechnology Research Institute
Prof. Yang Hou Wong (Director)

Energy Institute
Prof. Tsang Yew Cheong (Director)

GREAT Smart Cities Institute
Prof. Wong Kwan Lo (Director)

Institute for Emerging Market Studies
Prof. Donald Low (Director)

Institute for the Environment
Prof. Alexis Lau (Director)

Cheng Kung-Shun Robotics Institute
Prof. Michael Wong (Director)

Sino Software Research Institute
Prof. Shing Chi Cheung (Director)

William Mong Institute of Nano Science and Technology
Prof. Ha Lan Chan (Director)
Two Campuses
Hubs and Thrust Areas in HKUST(GZ)
<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>EMAIL</th>
<th>HUB</th>
<th>THRUST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xiaowen CHU</td>
<td>Affiliate Professor</td>
<td><a href="mailto:xwchu@ust.hk">xwchu@ust.hk</a></td>
<td>Information</td>
<td>Data Science and Analytics</td>
</tr>
<tr>
<td>Pan HUI</td>
<td>Affiliate Professor</td>
<td><a href="mailto:panhui@ust.hk">panhui@ust.hk</a></td>
<td>Information</td>
<td>Computational Media and Arts</td>
</tr>
<tr>
<td>Wei WANG</td>
<td>Affiliate Professor</td>
<td><a href="mailto:weiwcs@ust.hk">weiwcs@ust.hk</a></td>
<td>Information</td>
<td>Data Science and Analytics</td>
</tr>
<tr>
<td>Hui XIONG</td>
<td>Affiliate Professor</td>
<td><a href="mailto:xionghui@ust.hk">xionghui@ust.hk</a></td>
<td>Information</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>Yingcong CHEN</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:yingcongchen@ust.hk">yingcongchen@ust.hk</a></td>
<td>Information</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>Mingming FAN</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:mingmingfan@ust.hk">mingmingfan@ust.hk</a></td>
<td>Information</td>
<td>Computational Media and Arts</td>
</tr>
<tr>
<td>Jia LI</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:jialee@ust.hk">jialee@ust.hk</a></td>
<td>Information</td>
<td>Data Science and Analytics</td>
</tr>
<tr>
<td>Songze LI</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:songzeli@ust.hk">songzeli@ust.hk</a></td>
<td>Information</td>
<td>Internet of Things</td>
</tr>
<tr>
<td>Hao LIU</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:liuh@ust.hk">liuh@ust.hk</a></td>
<td>Information</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>Jing TANG</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:jingtang@ust.hk">jingtang@ust.hk</a></td>
<td>Information</td>
<td>Data Science and Analytics</td>
</tr>
<tr>
<td>Addison Lin WANG</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:linwang@ust.hk">linwang@ust.hk</a></td>
<td>Information</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>Wei ZENG</td>
<td>Affiliate Assistant Professor</td>
<td><a href="mailto:weizeng@ust.hk">weizeng@ust.hk</a></td>
<td>Information</td>
<td>Computational Media and Arts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Data Science and Analytics</td>
</tr>
</tbody>
</table>
Thank You