



Land Surveying Division  
Sr Paul Tsui LSD Council Chairman

## Updated Areas of Specialisation

If you are a frequent visitor to the LSD's webpage, ([www.hkis.org.hk/en/division\\_lsd.html](http://www.hkis.org.hk/en/division_lsd.html)), you may find that its section, Areas of Specialisation, has changed significantly. This change was sparked by a discussion during a Council meeting last year. Most Council members agreed that the areas of specialisation before this change were outdated and, hence, a task force was commissioned to update them. Task force members included Sr Kenny Chan, Sr YC Chan, Sr Ricky Lai, and me, who was also the convenor. Besides, Sr Yvonne Kong and Sr Jacqueline Kwok have contributed valuable website content. I take this chance to thank all of them for their efforts in making this happen.

When the LSD started work on the areas of specialisation, members found that they were directly related to the Competence Areas in the *Rules and Guide to APC of LSD* (hereafter *Rules and Guide*). The LSD Education Committee (LSDEC) unanimously agreed to revise the *Rules and Guide* with the updated areas of specialisation. As the LSDEC informed me, the revisions are making good progress right now.

I think members would agree that land surveyors are professionals who dare to embrace various technologies to their greatest extents to make their work more efficient and accurate. As part of their undergraduate training, they have already studied the use of Earth observation satellite imagery to conduct mapping, as well as the use of oblique photogrammetry, which is the core technique of today's drone mapping to carry out 3D measurements. The land surveyor's scope of expertise and service have expanded along with technological advances.

A good example of this is his/her increasingly crucial role in spatial data management and analysis with advances in GIS technologies amidst surveyors' traditional role in spatial data collection. So there is a substantial need to regularly update the Areas of Specialisation. This can also attract more students to choose land surveying as their undergraduate major because it shows that land surveying is a contemporary, trendy, and promising profession.

Aside from the Areas of Specialisation changes, the LSD added one new area, BIM, in which land surveyors, especially those working in the engineering survey field, have become increasingly involved. Moreover, the integration of GIS and BIM technologies, which complement each other, becomes critical to the whole project's lifecycle of construction digitalisation. Besides, the LSD changed the area of GIS to GeolT in order to include a broader spectrum of emerging technologies that are closely related to GIS such as IoT, GeoAI, Big Data Analytics, etc. It also highlighted its importance to smart city applications. To mapping and cartography, it added "digital" to reflect the importance of cartography in modern digital, especially web, mapping.

Finally, the webpage contents have been updated with more concise and non-technical descriptions of the areas of specialisation with real world application examples. The LSD hopes that these measures will give students and their parents a better understanding of the expertise of land surveyors and what they can do.

### CPD Highlights

**Technological driver for the land surveying industry during the transition of bearing and distance to 3D spatial data**



Upper Left: CPD Speaker Sr Yvonne CHEU

LSD Council member Sr Yvonne CHEU presented a CPD on the evolving role and contributions of land surveyors during the current digital transition to around 400 HKIS members.

During her talk, Yvonne reviewed traditional land surveying methodologies and showcased a list of successfully implemented projects using cutting-edge surveying technologies. She also highlighted the importance of an innovative mindset to better utilise the capabilities of new technologies and 3D spatial data. Yvonne summarised her presentation with her views on the future role of professional land surveyors.

During the Q&A session chaired by Sr Ricky Cheung, Yvonne shared her stories in convincing stakeholders to embrace new technologies and solutions. She further encouraged youngsters to make more attempts and be prepared for change. “Someday, you will realise the efforts you made in Project A have significantly helped you in Project B,” she concluded.

#### 3D Laser Scanning x BIM



#### AI + GIS



#### Take Away

<h3>1</h3> <p><b>Data Capture</b></p> <ul style="list-style-type: none"> <li>- Data source, e.g. cloud source</li> <li>- Latest technologies of data capturing</li> </ul>	<h3>2</h3> <p><b>Data Analysis</b></p> <ul style="list-style-type: none"> <li>- Data format</li> <li>- Data accuracy</li> <li>- Data availability</li> </ul>	<h3>3</h3> <p><b>Skill / Knowledge</b></p> <ul style="list-style-type: none"> <li>- Land surveying principle</li> <li>- Technology development trend (local and international)</li> </ul>	<h3>4</h3> <p><b>Technologies</b></p> <ul style="list-style-type: none"> <li>- IoT</li> <li>- Information Technology</li> <li>- e.g. Cloud technology, blockchain, VR/AR</li> </ul>
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## ANNOUNCEMENT

### LSD APC Part I Written Assessment (18 June 2022)

Date : 18 June 2022 (Saturday)  
Time : 10:00 am to 12:00 noon  
Venue : To be confirmed.

**Only Probationers who have been approved to enter the LSD APC scheme are eligible to apply for this Part I Written Assessment.**

Completed form (APC-3/LS) together with the application fee (i.e. a cheque of HK\$550 payable to "SURVEYORS SERVICES LTD.") must be returned to the HKIS **no later than 6:00 pm on 27 May 2022 (Friday)**. Late submission will not be accepted. Incomplete application form will not be entertained.

The syllabus and application form (APC-3/LS) for the LSD APC Part I Written Assessment could be downloaded from our HKIS website (HKIS main page ⇒ Professional Development ⇒ APC ⇒ LSD at <https://tinyurl.com/y5lnga6d>)

After having submitted the duly completed application form, applicants should receive written notification from HKIS Secretariat by 9 June 2022. Applicants should approach the HKIS Secretariat as soon as possible if they do not receive the notification.

**Note: Typhoon & Rainstorm Arrangement**  
The Written Assessment will be postponed if typhoon signal No. 8 or above or the black rainstorm warning is in effect at 8:00 am on the day of the Assessment. Notice of postponement will be issued later.

### HKIS Souvenir

**HKIS 35th Anniversary Runderful Pro Tee (Unisex)**  
**HK\$80 (Member price)**



**HKIS 35th Anniversary Cap**  
**HK\$35 (Member price)**



Available for sale at HKIS reception / HKIS Website

For enquiries and ordering, please contact our reception desk at 2526 3679 or visit [https://www.hkis.org.hk/en/hkis\\_shop.html](https://www.hkis.org.hk/en/hkis_shop.html)

### HKIS Souvenir

### HKIS Car Badge

A premium quality HKIS Car Badge is available now for you to decorate your car. Featuring HKIS' signature purple colour and shiny chrome, this nickel-plated car badge comes with two screws for easy installation.

**Each retailed at HK\$180.**



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