



August 2022

## Architecture - The Future of Urbanism

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### Recommended Citation

(2022) "Architecture - The Future of Urbanism," *SIGNED: The Magazine of The Hong Kong Design Institute*: , 44-45.

Available at: <https://repository.vtc.edu.hk/ive-de-signed/vol27/iss27/16>

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# The Future of Urbanism

## 都市化的未來

Patrik Schumacher, Principal of Zaha Hadid Architects, discusses high-rise, topology optimisation and vertical urbanism in his inspiring Master Lecture at HKDI.

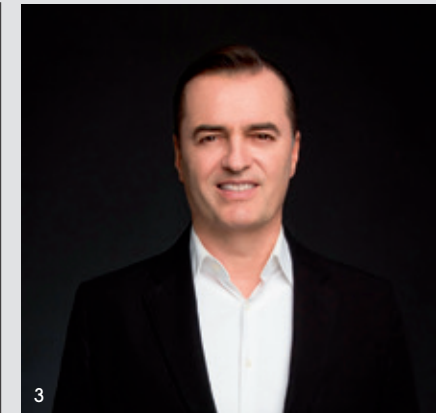
Zaha Hadid Architects 董事長帕特里克·舒馬赫於香港知專設計學院的大師班帶來充滿啟發性的演講，與觀眾探討高樓、拓撲優化與垂直都市主義。

Following HKDI's flagship exhibition of the year, *Zaha Hadid Architects: Vertical Urbanism*, the institute presents an online Master Lecture on ZHA (Zaha Hadid Architects).

The event opens with a lecture given by Patrik Schumacher, Principal of ZHA, followed by a roundtable discussion session. Simon Yu, Director of Zaha Hadid Architects in Hong Kong also sits at the panel alongside of seven other panelists

hailing from diverse backgrounds, including architects like Florence Chan, Ar. Donald Choi, Dennis Ho and Anderson Lee, also M+ Curator of Design & Architecture, Shirley Surya and Director of School of Architect in The Chinese University of Hong Kong, Professor Hendrik Tieban.

In the lecture, audience gets an invaluable experience of Schumacher himself introducing and explaining the ideas



behind the ZHA style of vertical urbanism. He examines how urbanism and high-rise typology has evolved from the Le Corbusier kind of rigid hierarchical structures and shares his view on how urbanism should focus on the more complex issues in society today.

ZHA spots the changes happening in socioeconomic dynamics, patterns of life, ways of working and collaborations and addresses them through design. The stylistic output from ZHA is one of a kind, but the more exciting and inspiring aspect about it is achieving the sense of monumental yet seamless and almost "invisible" at the same time – monumental in terms of its breathtaking appearance, and invisible in terms of how it smoothly adapts to the urban fabric and connects each internal programme together.

In a ZHA building, the top-down bureaucratic layout no longer exists. Instead, one finds interdisciplinary communication and spatial equality achieved by abundant atriums, bridges and programme-filled voids; vertical movements are replaced by internal connectiveness through interlacing paths; porous structures allow for ample visibility from the inside. A clear view of the top floor right from the ground level is even made possible. While the people inside can always find a way to reach the outer urban fabric, the meticulous use of curtain walls also allow those outside of the building to witness the vigorous internal ecosystem.

As an avid advocator for parametricism, Schumacher also offers audience a peek into topology optimisation as both a stylistic and functional solution to building more efficient, cohesive and interconnected urban fabrics.

"Vertical urbanism is also a three-dimensional city." Schumacher says, "It is a very Hong Kong idea." He zooms in on a few of the Asian projects ZHA has

worked on over the years, including the unrealised Peak Clubhouse proposal, the more recent exoskeleton Morpheus Hotel in Macau and the Innovation Tower at The Hong Kong Polytechnic University.

The Henderson in Central is ZHA's latest construction in Hong Kong after the Innovation Tower almost a decade ago. We are looking forward to seeing changes in society reflected on this ZHA design and how it can bring more diversity, vibrancy and interconnections to one of the busiest cities in the world.

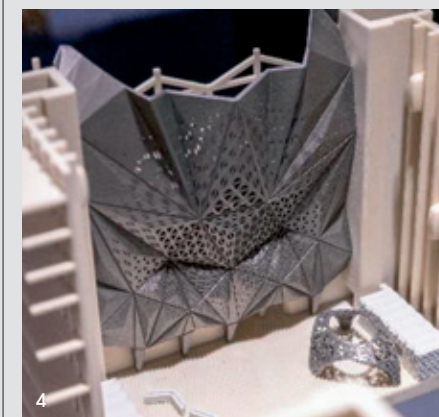
繼香港知專設計學院的年度展覽「Zaha Hadid Architects: 城市境界」後，學院舉辦了 Zaha Hadid Architects (ZHA) 的網上大師班講座。

是次活動先由 Zaha Hadid Architects 董事長帕特里克·舒馬赫演講，緊隨其後的網上圓桌論壇環節，由 Zaha Hadid Architects 香港總監俞錦文與另外七位來自不同背景的講者一同參與，包括多位建築師如陳麗珊、蔡宏興、何顯理和李亮聰，以及 M+ 設計及建築策展人王蕾和香港中文大學建築學院主任田恆德教授。

舒馬赫於大師班親身講解 ZHA 垂直都市主義風格背後的理念，令觀眾受益匪淺。他探討了都市主義與高層建築如何從勒·柯比意時期的現代主義逐漸演變成今天的樣貌，並分享了他對都市主義應如何面對更多複雜社會問題的看法。

ZHA 通過設計去應對社會經濟、生活方式、工作與合作方式的變化。其建築風格獨一無二，聞名世界，最激發人心和具啟發性的，是他們所設計的作品既有雄偉的外觀，同時以無縫流線的設計，完美地融入城市環境肌理中，而又能與內部每個細節相連接。

在 ZHA 的建築中，從上而下的官僚格局和封閉的建築模式已不復存在，取而代之的是開放且互連互通的建築模式，通過大量的中庭設計、連廊和細緻規劃的空間感，以內部層疊式的交錯路徑取代垂直發展；孔洞結構讓置身其中的人能看到絕佳的景觀，甚至可以從地面清楚望向最頂層。建築物內的人可隨時接觸到城市外部的環境肌理，當中巧妙使用了建築幕牆，



讓建築外的人看到充滿活力的內在生態系統。

舒馬赫是參數化設計的倡導者，他亦帶領觀眾一睹拓撲優化技術如何在風格和實用性上構建更高效、更有凝聚力和更緊密互扣的城市建築群。

「垂直都市主義也是 3D 城市。」 Schumacher 說：「這是一個非常香港的概念。」他向觀眾介紹了 ZHA 的一些亞洲項目，包括未能落實興建的香港山頂俱樂部方案，較近期的則有採用外骨骼結構的澳門新濠天地摩珀斯酒店和香港理工大學賽馬會創新樓。

位於中環的 The Henderson 是 ZHA 繼賽馬會創新樓建成將近十年後在香港的最新力作。我們期待看到這個 ZHA 設計反映的社會變化，以及它如何為香港這個世界上最繁忙的城市之一帶來更多活力、多元和聯繫。

1. Concept model of The Peak Project in Hong Kong  
香港山頂俱樂部項目的建築概念模型

2. Thallus showcased at "Zaha Hadid Architects: Vertical Urbanism" Exhibition, Installation, 2017  
Sculpture developed by ZHCode with ZHD, in collaboration with AiBuild, Odico Formwork Robotics, Armadillo Engineering.  
於「城市境界」展覽展示的幾何實驗雕塑 Thallus，裝置，2017 雕塑項目由 ZHCode 及 ZHD 研發，並與 AiBuild、Odico Formwork Robotics 及 Armadillo Engineering 合作。

3. Patrik Schumacher, Courtesy of Zaha Hadid Architects.  
帕特里克·舒馬赫，照片由 Zaha Hadid Architects 提供。

4. Atrium study model for Morpheus Hotel & Resort at City of Dreams Macau, 2013-2018. 澳門新濠天地摩珀斯酒店的中庭建築模型，2013-2018。

5. One Thousand Museum @ Hufon Crow  
千禧博物館 © Hufon Crow

