

## **AI, Blockchain, Quantum Computing and Cloud: How Banks, Insurance, Corporates and Nations Must Change and Adapt to Stay Relevant**

In this 2-day course, we will look at the rapidly changing technological landscape using concrete case studies collected globally. We seek to examine how millennials, boomers, nations and corporates are changing and adapting to cope as technology forces change in how we 1) think and learn with artificial intelligence (AI); 2) (re)organise ourselves in the corporate world; 3) understand how Chinese companies are pulling ahead in the rollout of global payments systems; 4) know which corporates are doing a better job in accepting and adapting to revolutionary change; 5) comprehend how technology is radically changing our understanding of insurance.

### **Objectives**

#### **A. Knowledge and Understanding (Theory Component)**

At the end of this course, participants should be able to:

- Identify the human and corporate blindspots that cause failure and how AI can overcome them
- Describe the nuts and bolts of blockchain, cloud, quantum computing and insurtech
- Discuss the ways in which banking and insurance are adapting more rapidly than others
- Analyse how incumbent elephants learn to adapt and use new technologies to reinvent themselves

#### **B. Key Skills (Practical Component)**

At the end of this course, participants should be able to:

- Employ the most applicable AI skills in creating a start-up
- Compare corporate strategies which will work and which will be doomed through case studies
- Criticize the role of AI as a vital ally in avoiding pitfalls in investing
- Assess the future applications of quantum computing and the preparation for it

**Topics**

<b>Time</b>	<b>Agenda</b>
<b>Day 1</b>	
09:00 – 09:15	2-Day Course Overview
09:15 – 10:45	Escaping the Personal and Corporate Lizard Brain <ul style="list-style-type: none"> <li>- The 21 human blindspots that ruin investments</li> <li>- How AI overcomes them with standard tools and new deep learning algorithms</li> <li>- Case studies: Netflix, Facebook, Google, Ping An, Weka</li> </ul>
10:45 – 11:00	Break
11:00 – 13:00	China vs the US in AI and Financial Services <ul style="list-style-type: none"> <li>- Ways in which Alibaba and Tencent are way ahead of US</li> <li>- How ecosystems evolve as an outward growing circle of data sharing</li> <li>- Case studies: Tencent, Zhong An, Alibaba vs Facebook, Google, Amazon, Microsoft, Apple</li> </ul>
13:00 – 14:00	Lunch
14:00 – 15:30	Evolution of Banking <ul style="list-style-type: none"> <li>- Ride share, e-commerce and payments morphing into lifestyle banking</li> <li>- Alibaba moves into global e-commerce and payments for OBI, beating Tencent</li> <li>- Are Walmart and Amazon into financial services in India?</li> <li>- The differences between a good credit and a good citizen</li> </ul>
15:30 – 15:45	Break
15:45 – 17:30	New Players and Products in Financial Services <ul style="list-style-type: none"> <li>- China: Hate the bitcoin sinner; love the blockchain sin</li> <li>- Case studies: DBS, Fujitsu, IBM</li> <li>- How big Kahunas are changing: China Life, China Unicom, Singtel</li> <li>- Will central banks try to singularize a universal blockchain system?</li> </ul>

Day 2	
09:00 – 09:15	Overview of the Day and a Quick Recap
09:15 – 10:45	Connection Between Blockchain and IOT <ul style="list-style-type: none"> <li>- Learning from failure</li> <li>- Why banks must create online digital banks, immediately?</li> <li>- Case studies: Goldman, JPM, Tencent, Alibaba, Santander, Lufax</li> </ul> The blockchain clock — blockclock
10:45 – 11:00	Break
11:00 – 13:00	Ping An and the Transformation of Healthcare and Insurtech <ul style="list-style-type: none"> <li>- How Ping An uses core data to create ever richer data sources</li> <li>- How insurance data is pro-hint into credit data</li> <li>- How AI causes quantum improvements in business</li> <li>- Case studies: The Ping An move in O2O — and the evolution of Lufax</li> </ul>
13:00 – 14:00	Lunch
14:00 – 15:30	Insurtech — Digitizing Head, Heart, and Hand <ul style="list-style-type: none"> <li>- Millennials vs boomers</li> <li>- What the temporary nature of millennials means for insurtech products?</li> <li>- IOT and insurtech</li> <li>- Digitizing insurance data</li> <li>- Transformation and learning from mistakes</li> <li>- Case study: Ping An</li> </ul>
15:30 – 15:45	Break
15:45 – 17:00	Conclusions: Implications for Startups and Corporates <ul style="list-style-type: none"> <li>- Digitizing the elephant</li> <li>- Growing the small companies with AI</li> <li>- Becoming better investors with AI</li> <li>- Limits of AI – and the evils that people do</li> <li>- Feedback — did this change your view of corporate strategy or startup?</li> <li>- Feedback — what are the danger points for Alibaba and Tencent?</li> <li>- Feedback — Singapore needs to glue itself to Indonesia?</li> <li>- Feedback — will the US go after China to isolate it further in 2021?</li> </ul>
17:00 – 17:30	Assessment

## Requirements

For any enquiries regarding the workshop requirements, please email [suss\\_ftb@suss.edu.sg](mailto:suss_ftb@suss.edu.sg).

**Duration: 2 days**

**Venue: Singapore University of Social Sciences**

**Minimum number to run: 25 participants**

**Certificate of completion is awarded upon fulfilling course requirements.**

**Participants are required to achieve at least 75% attendance and/or sit and pass any prescribed examinations/assessments or submit any course/project work (if any) under the course requirement.**

### **Trainer's Profile**



**Paul Schulte**  
*Founder & Editor, Schulte Research*

Paul Schulte is founder of Schulte Research, set up in 2012 researching financial institutions and financial technology.

He has spent 3 decades in research on financials. He has worked for all 3 branches of US government, including the NSC at the White House. He currently teaches in 3 universities, has written 5 books and authored hundreds of articles. He has worked for the Number 1 investment bank from US, UK, Japan, China and Switzerland starting in 1990. He has taught on 5 continents. His focus is technological change in banks and insurance. He has been a source for the WSJ, NYT, Bloomberg, Nikkei, FT, Economist, Barron's and Forbes.

His clients include some of the largest sovereign, pension, mutual and hedge funds globally. He is the author of "The Next Revolution in our Credit Driven Economy".