

COMP @NEWS

Spring 2021



COMP scholars are honoured internationally

Prof. Jiannong Cao

Otto Poon Charitable Foundation
Professor in Data Science
Chair Professor of Distributed
and Mobile Computing

is elected Member of
Academia Europaea

Prof. Cao was the founding director and is now the associate director of PolyU's University Research Facility in Big Data Analytics (UBDA). He is an IEEE Fellow, an ACM distinguished member and a distinguished member of the China Computer Federation (CCF). Prof. Cao has directed and participated in over 90 projects and obtained over HK\$62 million grants from different funding agencies.

Prof. Lei Zhang

Chair Professor of Computer
Vision and Image Analysis

is listed in Top 1000 Scientists for
Computer Science & Electronics
2020 and Highly Cited Researcher
(Engineering) 2020

Prof. Zhang is an IEEE Fellow and he has been named Highly Cited Researcher for the sixth consecutive years. His research interests include Computer Vision, Pattern Recognition, Deep Learning, Image and Video Processing, and he has published more than 275 papers in these areas. According to Google Scholar, his works have been cited more than 59,000 times and his h-index is 117.

Prof. Song Guo

Professor and Associate Head
(Research & Development)

is named ACM Distinguished
Member and Highly Cited
Researcher (Computer
Science) 2020

Prof. Guo conducts research mainly in the areas of Big Data, Edge AI, Mobile Computing, Blockchain and Distributed Systems. He is an IEEE Fellow and the Editor-in-Chief of IEEE Open Journal of the Computer Society. Prof. Guo has also served on the editorial board of various prestigious international journals and published over 500 research papers.

AWARDS & ACHIEVEMENTS

Faculty of Engineering Research Grant Achievement Award 2019

Dr Ray Yang received the Faculty of Engineering (FENG) Research Grant Achievement Award for 2019 in recognition of his great efforts and contributions in securing external competitive research grants.

Faculty Awards for Outstanding Achievement 2019/20

Dr Dennis Liu and Prof. Song Guo received the Faculty Awards for Outstanding Achievement 2019/20. This truly reflects the great efforts and contributions made by our staff members.

Faculty Award in Teaching - Merit Award (Individual)

Dr Dennis Liu, Teaching Fellow

Faculty Award in Research and Scholarly Activities - Merit Award (Individual)

Prof. Song Guo, Professor and Associate Head (Research & Development)



Dr Ray Yang



Dr Dennis Liu



Prof. Song Guo

Huibregtsen Prize 2020

Prof. Johan Hoorn shared the honour of the Huibregtsen Prize 2020 with Prof. Elly Konijn of Vrije University Amsterdam for their robotics research project "Alice" at the award ceremony that took place on 5 October 2020 in Haarlem, The Netherlands.

Social loneliness is a major problem in an ageing society. Prof. Hoorn and Prof. Konijn have therefore developed "Alice", a robot girl that helps to cope with loneliness among older adults. "Alice" is regarded as an electromechanical grandchild. She relieves loneliness and improves the quality of life by being a companion to older adults, chatting with them and responding empathically.



2020 IEEE Computer Society TCCLD Research Innovation Award

Prof. Jiannong Cao, Otto Poon Charitable Foundation Professor in Data Science and Chair Professor of Distributed and Mobile Computing, has received the 2020 IEEE Computer Society Technical Committee on Cloud Computing (TCCLD) Research Innovation Award for his contribution in task partition and scheduling in the cloud and edge computing.

NSFC Excellent Young Scientists Fund 2020

Dr Ray Yang has secured a grant from the National Natural Science Foundation of China (NSFC) Excellent Young Scientists Fund 2020 for his research project titled "Battery-free Internet of Things".

This project proposes an efficient and battery-free IoT, which can harvest energy from ubiquitous electromagnetic waves for wireless transmission and sensing.

President of IEEE Biometrics Council 2021-2022

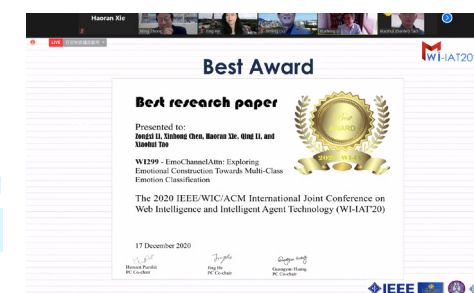
Prof. Ajay Kumar has been elected as President of IEEE Biometrics Council 2021-2022. He is an IEEE Fellow and an IAPR Fellow. He is currently an Associate Editor of the IEEE Transactions on Pattern Analysis & Machine Intelligence and IEEE Transactions on Biometrics, Behavior, and Identity Science. He has also served as area chair, programme chair and general chair in several top international conferences and workshops.

Best Paper Awards

Prof. Qing Li
Chair Professor of Data Science and Head

2020 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT '20)

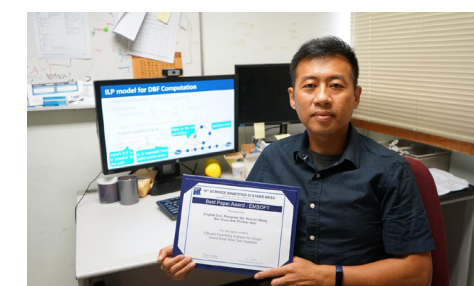
"EmoChannelAttn: Exploring Emotional Construction Towards Multi-Class Emotion Classification"



Dr Nan Guan
Associate Professor

The 20th ACM SIGBED International Conference on Embedded Software (EMSOFT 2020)

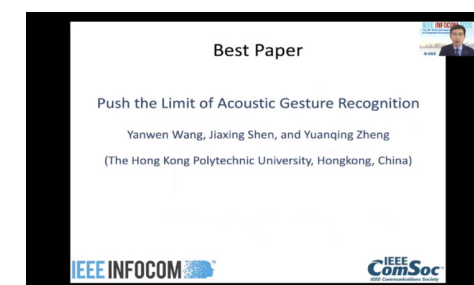
"Efficient Feasibility Analysis for Graph-based Real-Time Task Systems"



Dr Jiaxing Shen, Research Assistant Professor
Dr Yanwen Wang, Postdoctoral Fellow
Dr Yuanqing Zheng, Associate Professor

The 39th IEEE International Conference on Computer Communications (INFOCOM 2020)

"Push the Limit of Acoustic Gesture Recognition"



Outstanding Student Awards 2020

Mr Xiaochuan Xu, our final year student of BSc (Hons) in Computing, has been awarded the “Outstanding Student Award of Department” for his exceptional accomplishments in both academic and non-academic pursuits. The Outstanding Students Award Scheme is one of the most prestigious award schemes at PolyU which is set up to recognise high achievers.

Xiaochuan is a self-motivated and hardworking student. His decent academic profile, active involvement in extra-curricular activities and good personal qualities have equipped him to be an all-rounder. He was included several times in the Dean’s Honours List and won numerous competitive scholarships. Besides, he enthusiastically participated in co-curricular activities including outbound exchange to the USA, overseas internship in France, external competitions and community services. Xiaochuan also provided extensive services to the University such as assisting in PolyU Education Information Day, Orientation Programme for non-local students and PolyU SOAR Global Youth Leadership Programme as well as serving as the General Secretary for PolyU Chinese Mainland Students’ Association in which his strong leadership skills were well-demonstrated.



“ My achievement is the result of both the rigorous academic training and plenty of valuable resources provided by COMP. In the future, I would like to become a prominent system architect working in the Internet juggernauts. ”

Best Paper Award at IEEE BIBE 2020

Our graduating student, Mr Andy Yuen, won a Best Paper Award under the category of Bioinformatics at the 20th IEEE International Conference on Bioinformatics and BioEngineering (IEEE BIBE 2020) with his final year Capstone Project titled “Better Link Prediction for Protein-Protein Interaction Networks”.

The objective of this research project is to design better computational techniques for predicting molecular interactions inside biological organisms.



First Class Award of 1st National Artificial Intelligence Challenge

Congratulations to our research student team consisted of Mr Jie Liang, Mr Xi Yang and Mr Hui Zeng on winning a First Class Award at the 1st National Artificial Intelligence Challenge (NAIC) Award Presentation Ceremony held on 15 January 2020 in Shenzhen, China. The team well demonstrated their professional knowledge and skills in transferring AI technologies to industry solutions, competing among over 3,000 teams from 13 countries and regions.

NAIC included stages from the preliminary, semi-final to finals. The team took part in the “AI + 4K HDR” track under the theme of AI application in the 4K/ HD video processing field. They explored the performance of the 4K high dynamic range (HDR) standard in terms of image resolution, details, colour and dynamic range, and designed practical solutions.

“The competition contained multiple intertwined tasks, some of which had contradictive objectives. Processing these tasks consume a lot of computational resources and time was somehow limited given such a complicated competition. We

analysed the overall objective, then divided the difficult problems into several more controllable subtasks. The divide-and-conquer strategy is a common practice widely used in designing a sophisticated system in the IT industry. We got inspiration from our internship experience at the Artificial Intelligence Centre of Alibaba DAMO Academy,” said Hui, the team leader.

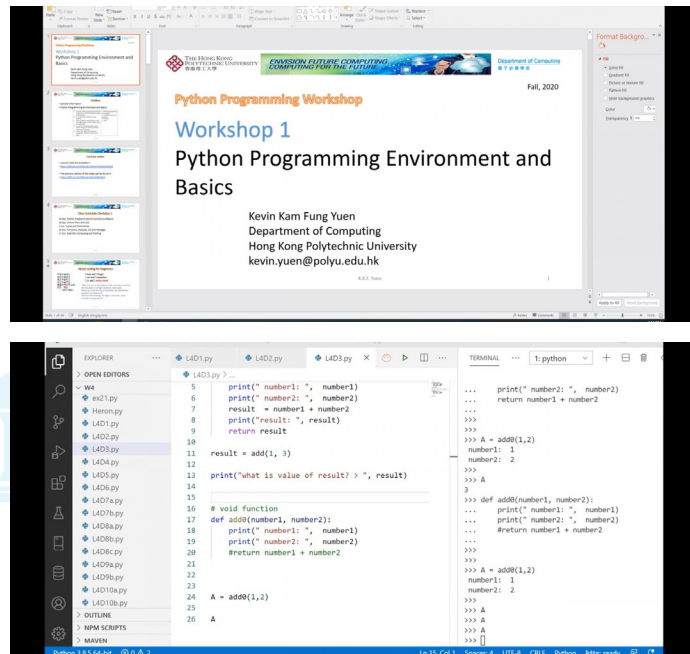
“We would like to thank our supervisor, Prof. Lei Zhang, for his valuable technical and professional guidance. Besides, we would also like to express our gratitude to Alibaba for their support of computational resources during the competition.”

The team keeps improving the algorithms since winning the competition. They are collaborating

with the DAMO Academy to convert their research to real-world applications, such as transforming the huge number of classical videos in standard dynamic range and limited resolution into high dynamic range video with 4K resolution, to meet the upcoming demands in the popularisation of 4K displays.

“We leveraged the expertise of each team member and the internship experience gained to accomplish the tasks.”

LEARNING & TEACHING



Python workshops for MSc students

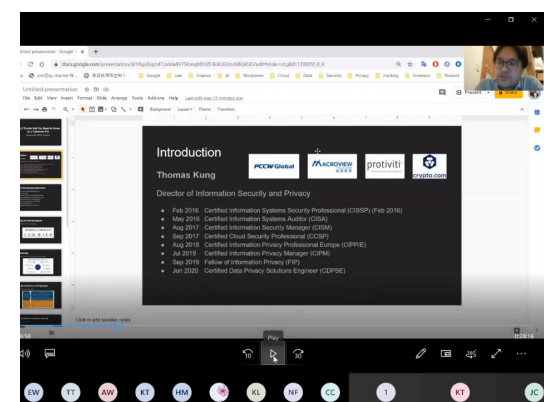
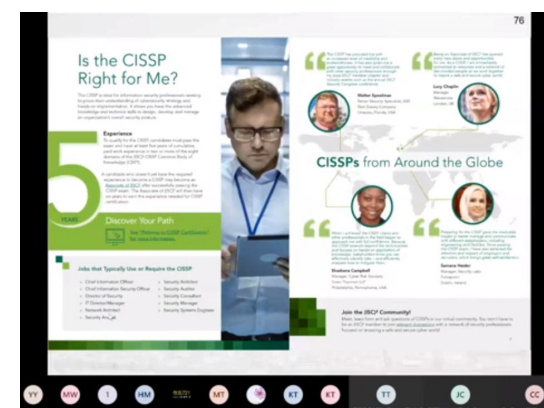
Programming workshops are the learning initiatives designed to strengthen our students with basic programming knowledge to master their studies at COMP. With the growing popularity of Python, we organised a series of online workshops from September to October 2020 which attracted over a hundred MSc students with diverse programming backgrounds but new to Python.

The training sessions covered a broad range of topics including Python Programming Environment, IDE's, and Basic Data Types; Control Flow, Branches and Lists; Tuples and Dictionaries; Functions, Modules, Object-Oriented Programming and Packages; and Jupyter Notebook, Scientific Computing and Plotting. Students learnt how to install and use Python, its features and methods as well as the comparison with other programming languages. They also had the opportunity to practise various coding exercises with real examples in which they could gain a better understanding and some hands-on experience.

Workshops on information security professional examinations

COMP organised a series of online workshops on the professional examinations of information security for our undergraduates and MSc students last summer. The workshops covered major technical topics, simulation and sample exercises, as well as included sharing by industry practitioners who are Certified Information Systems Security Professional (CISSP) and Certified Information Systems Auditor (CISA).

The workshops enabled our students to obtain practical knowledge and helped them get prepared for the professional examinations, enhancing their technical competencies and employability. Certified students could receive higher recognition from employers.



OERs Competition - Learn to Learn

There are many public domain e-learning materials and Open Education Resources (OERs) such as short videos and websites available online. Thus COMP organised an "OERs Competition – Learn to Learn" from January to June 2020 to encourage students to search for and create good OERs.



"After the OER competition, I treasure the value of personifying abstract concepts. An intuitive and metaphorical explanation speaks for itself, intimidating computing concepts would dissolve into understandable knowledge, even in the eyes of a non-expertise."

Miss Isabel Madeleine Kemp, 1st Prize Winner of Creating OER

COMP Mentorship Programme Kick-off

We have introduced COMP Mentorship Programme 2020/21 in collaboration with the Computing Alumni Association (CAA) to provide our students with the opportunity to seek professional advice from the industrial mentors on personal and career development, as well as to gain an understanding of business practices, workplace culture, market trends and prospects in established professions. On 26 January 2021, a virtual kick-off was held for the students to meet and connect with our alumni mentors. Prof. Qing Li, Chair Professor and Head of COMP, kick-started the event with a warm welcome to all participants and he thanked the mentors for their support and contributions. Mr Darron Sun, the Mentorship Coordinator of CAA, gave an introduction to the Mentorship Programme



followed by the sharing of each mentor from various sectors including IT, fintech, insurance, government, e-commerce, etc. We also prepared online breakout rooms for the students to have different group discussions with their assigned mentors and other mentors to promote cross-industry inspiration.



COMP career talk on "Preparing to build a professional journey"

Under the COMP Mentorship Programme, an online career talk on "Preparing to build a professional journey" was organised on 5 March 2021. We invited one of our mentors and alumni, Mr Andy Wan, Director and Head of Transformation of AXA Hong Kong and Macau, to share his career journey and the major changes that evolve to his role today.

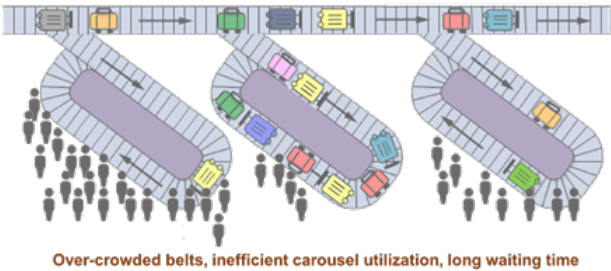
RESEARCH EXCELLENCE

Research Project Highlight

BigARM: Big Data Engine for Airport Resource Management

The airport is a complex system consisting of various operation running by different departments, such as the baggage handling department, security department, and passenger service department. These departments operate limited resources to meet the increasing demands from passengers and other airport businesses. Due to such complexity and limitation, it's extremely difficult for airports to well allocate available resources. To make it worse, the airport operation environment is dynamically changing over time, e.g., the delays of flights, the late arrivals of some passengers, some temporary requirements from customs and the bad weather. In these cases, resource management at airports becomes a critical challenge, and long waiting time at check-in desks and reclaim hall is thus common and inevitable.

“BigARM can improve the operation flow efficiently and reduce the manual allocation plan time dramatically through AI techniques.”



A Big Data and AI Empowered Engine for Resource Management

Prof. Jiannong Cao and his research team have developed a big data engine, called BigARM, equipped with powerful big data analytics and AI techniques to achieve efficient and intelligent airport recourse management. BigARM collects real-time flight data, airfield operation data and various external data. With these data, an unknown factor prediction module is developed for BigARM to uncover the underlying patterns in daily airport operation from different angles, e.g.

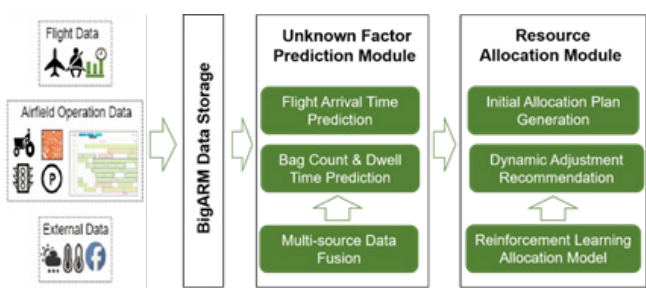
Eliminate Baggage Delivery Stoppage Due to Carousel Congestion

With the support from Hong Kong Innovation and Technology Fund (ITF), and the collaboration with Hong Kong International Airport (HKIA) and Logistics and Supply Chain MultiTech R&D Centre (LSCM), BigARM has been fully tested at HKIA, performing a full-day initial allocation plan generation and recommendations of dynamic allocation adjustment to efficiently manage the reclaim belts. BigARM achieves over 30% and 64% more accurate results respectively in



predicting the arrival time and bag counts for upcoming flights compared to the airport's existing estimation. As a result, the full-day allocation plan made by BigARM has been much more balanced than the one manually manipulated by the experienced operators at the airports.

Reclaim belt allocation is just one of the many resource management challenges in airport operations. BigARM can also be applied to tackle similar problems that exist in managing passenger check-in counters, boarding gates, immigration counters, aircraft parking



stands, airside cargo and passenger vehicles and so on. Therefore, BigARM will immensely enhance the intelligence in airport operation, smooth the operation flow, and improve passengers' experience.

External Research Grants Secured in 2020/21

General Research Fund (GRF) 2020/21

Project Title	Principle Investigator	Funding Awarded
E-Tree Learning: A Novel Decentralized Model Learning Framework for Edge AI	Prof. CAO Jiannong	HK\$1,057,394
Federated Learning with Non-IID Data over Resource-Constrained Mobile Edge Networks	Prof. GUO Song	HK\$1,057,394
Approximation Algorithms for Phylogenetic Networks	Dr JANSSEN Jesper	HK\$718,234
Towards Knowledge-Grounded Neural Conversation Machines	Dr LI Maggie	HK\$602,349
Hardening Blockchains Against DoS Attacks Exploiting Gas Mechanism	Dr LUO Daniel	HK\$501,957
Federated Learning in a Peer-to-Peer Environment: Architecture, Algorithms, and Implementation	Dr WANG Dan	HK\$845,055
2-D Graph Convolution for Learning on Graphs: Methodology and Applications	Dr WU Xiaoming	HK\$845,055
Towards Secure Blockchain-based DNS and Log Systems: Data Authenticity, Availability and Traceability	Dr XIAO Bin	HK\$926,379
A Protocol-Free Tracking Platform for the Internet of Things	Dr YANG Ray	HK\$845,055
Exploiting Smart Memory/Storage for Accelerating Data Mining on Vector Data	Dr YIU Ken	HK\$602,349

Innovation and Technology Fund (ITF) 2020/21

Project Title	Principle Investigator	Funding Awarded
Blockchain-based Data and Operations Protection: Research, Development, and Application	Dr LUO Daniel	HK\$1,532,600

National Natural Science Foundation of China (NSFC) 2020

Project Title	Principle Investigator	Funding Awarded
Characterize, Detect, and Neutralize: Context-aware Computational Methods for Media Bias on Social Platforms	Dr LI Amelia	RMB240,000
Knowledge Fusion and Knowledge Reasoning in Human-Machine Conversation	Dr LI Maggie	RMB590,000
Battery-free Internet of Things	Dr YANG Ray	RMB1,200,000
Cross-component Security Assessing of Firmware Update in Applified IoT Systems	Dr XUE Jeremy	RMB240,000

COMP scholars ranked among top 2% of scientists in the world

A total of ten scholars (including four retired colleagues) from COMP have been ranked among the world's top 2% most-cited scientists in the field of "Artificial Intelligence & Image Processing", "Networking & Telecommunications" and "Software Engineering" in an article on "Updated science-wide author databases of standardized citation indicators" published by Stanford University in the journal "Public Library of Science (PLOS) Biology" in October 2020. It identifies the top scholars in their own areas of speciality and whose publications are most frequently cited by other authors around the globe. This recognition reflects the high academic standard of our staff members and our excellent research performance.

The following COMP scholars earn a place in the list:

Prof. CAO Jiannong

Prof. CHAN Keith*

Dr CHANG Rocky*

Prof. GUO Song

Prof. KUMAR Ajay

Dr LEUNG Hareton*

Prof. LI Qing

Prof. RAYNAL Michel

Prof. ZHANG David*

Prof. ZHANG Lei

*Retired colleagues

Distinguished Seminar Series on Data Science & Artificial Intelligence

Co-organised with the Data Science and Artificial Intelligence Lab (DaSAIL), we successfully launched the Distinguished Seminar Series on Data Science and Artificial Intelligence, with the first one by Prof. Hussein Abbass on "Artificial Intelligence: The Pearls of the Knowledge Economy" on 25 March 2021. It attracted over 320 attendees from PolyU, HKUST, CUHK, HKBU, as well as overseas institutions including the University of Canberra, University of New South Wales, Victoria University of Wellington, University of Exeter, University of Surrey, University of Waikato and RMIT University.

*Distinguished Seminar Series on
Data Science & Artificial Intelligence*

Artificial Intelligence: The Pearls of the Knowledge Economy

Prof. Hussein Abbass
Professor
School of Engineering and Information Technology
University of New South Wales
Canberra, Australia



 **25 Mar 2021 (Thu)**
 **14:00 - 15:00 (HKT, UTC+8)**
 **Online via Zoom**

Research Seminars

To keep our academic staff members and students up-to-date with the cutting-edge technical knowledge in computing-related disciplines, as well as assist them in gaining exposure to a broad range of research topics, COMP regularly invites scholars of different specialisations to share with us their latest research findings.

Date	Seminar Topic	Speaker	Institution
10 February 2021	Virtual Reality enabled Learning for Children with Special Education Needs	Dr Richard Li	Department of Computing The Hong Kong Polytechnic University
24 February 2021	Software Design for Energy Harvesting IoT Devices	Dr Mingsong Lyu	Department of Computing The Hong Kong Polytechnic University
26 March 2021	Social Media Analysis with Graph Neural Networks	Dr Wanyu Lin	Department of Computing The Hong Kong Polytechnic University

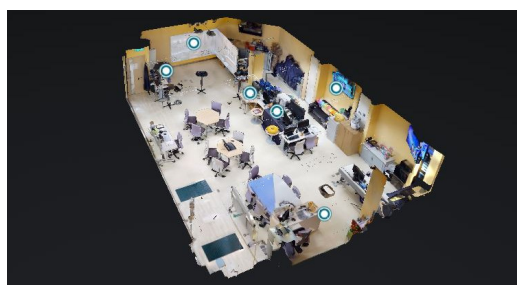
COMP@PolyU Education Info Day

On 10 October 2020, COMP organised different live streaming and virtual activities including info seminar and consultation, virtual booth exhibition and lab tour during PolyU Online Education Info Day to provide the prospective students, their parents and the public with the most up-to-date information on our BSc (Hons) Scheme in Computing.

New: FinTech and Artificial Intelligence

- FinTech companies have raised over US\$1.1 billion.¹
- Government committed to allocate over HK\$100 billion in promoting ICT development, focusing on Artificial Intelligence, Biotechnology, FinTech and Smart City.²
- Over 80% of banks in Hong Kong plan to increase investment in AI within 5 years.³
- Hong Kong Monetary Authority has granted banking licenses to a total of 6 virtual banks.⁴
- Insurance Authority granted authorization to the fourth virtual insurer, offering the prospect of accelerated FinTech development in Hong Kong.⁵

Source: 1. FinTech News, 2020. 2. Government Policy, 2018. 3. The Hong Kong Monetary Authority, 2020. 4. The Hong Kong Monetary Authority, 2020. 5. Insurance Authority, 2020.



IFTA FinTech Achievement Awards 2019 PolyU Campus Sharing

Three IFTA FinTech Achievement Awardees including Mr Bob Lee, Chief Business Officer of BCT Group, Mr Joe Ng, Chief Technology Officer of Centaline Data Technology Limited, and Ms Ivy Tse, Co-founder & Director of FreightAmigo Services Limited, were invited to share their expertise and insight on financial technology in the field of MPF, PropTech and FreightTech respectively on 24 September 2020.



EVENT HIGHLIGHTS

PolyU Info Day for Taught Postgraduate Programmes

COMP hosted an online info seminar to introduce the Master of Science in Information Technology (MScIT) programme on 9 January 2021. The seminar provided participants with an excellent opportunity to obtain first-hand information about our MSc programme as well as academic advice from COMP faculty members.

**Info Seminar
MSc in Information Technology**

**MSc in IT
Info Seminar**

Dr Koris Chung
Scheme Coordinator

Dr Ken Yiu
Programme Leader

Dr Daniel Luo
Associate Professor



The Mainland-Hong Kong Research Forum on the Advances in Cybersecurity

Co-organised by the National Natural Science Foundation of China (NSFC) and Beijing-Hong Kong Academic Exchange Centre, and supported by COMP and Peng Cheng Laboratory, the Mainland-Hong Kong Research Forum on the Advances in Cybersecurity was successfully



Scholars from prominent institutions were invited to discuss a wide range of security issues on different aspects including internet monitoring, blockchain, AI, multimedia, ICS/ IoT, cryptography and cloud computing. Prof. Jiannong Cao, Chair Professor of Distributed and Mobile Computing of COMP, shared his view on "Security and Privacy for Blockchain-based Big Data Sharing" while Prof. Song Guo, Professor of COMP, presented his research findings on "Deep Reinforcement Learning Empowered Blockchain: Security Challenges and Solutions".

The two-day forum provided a constructive platform for local and Mainland academia and researchers to analyse and exchange insightful perspectives on the latest development, challenges and opportunities of cybersecurity.



concluded in hybrid mode from 23 to 24 October 2020. The forum brought together over 140 cybersecurity experts to promote security technology for cyberspace and strengthen the cooperation on scientific research and education.

The opening of the forum was officiated by Dr Zhaotian Zhang and Dr Shige Zhan from NSFC; Mr Hoi Shan Hsu from Beijing-Hong Kong Academic Exchange Centre; Prof. Qing Li, Chair Professor of Data Science and Head of COMP, Prof. Hui Zhou from Peng Cheng Laboratory, and Prof. Binxing Fang, Academician of Chinese Academy of Engineering.

PolyU hosted a webinar at "Hong Kong FinTech Week 2020"



PolyU hosted a webinar "FinTech Development and Opportunities in the Greater Bay Area (GBA)" on the first day of Hong Kong FinTech Week, to explore ways to address the talent need of the fintech industry and support the fast-paced development in GBA.

Dr Walter Fung, Teaching Fellow of COMP, and Dr Bin Xiao, Associate Professor

of COMP, introduced our BSc (Hons) in Financial Technology & Artificial Intelligence and MSc in Information Technology respectively.

Dr Henry Chan, Associate Professor & Associate Head of COMP, joined as one of the panelists in the roundtable discussion on how fintech shapes the future of financial services in GBA.



COMP alumnus and scholar teamed up to win a Gold Medal at the 2nd Asia Exhibition of Inventions Hong Kong

Congratulations to Dr Abraham Lam, our alumnus and the Founder of MEGA Automation Ltd, and Dr Dan Wang, our Associate Professor, on receiving a Gold Medal in the 2nd Asia Exhibition of Inventions (AEI) Hong Kong with their project "Smart Air-conditioning Platform (SAP) for Optimizing Thermal Comfort and Energy Consumption in Buildings".

Air-conditioning system accounts for more than half of the energy consumption in a building. Thermal comfort is a subjective feeling. Occupants may find an indoor temperature too cold or too warm which is not good for health and productivity and it may lead to energy waste as well. In light of this, Dr Lam has developed an AI algorithm that enables SAP to quantitatively calculate and estimate the thermal comfort of any individuals based on the different environmental and weather conditions like time, outdoor and indoor temperatures, fan speed and

"There is no shortest path to success, but only by your persistence and patience to get things done."

ultraviolet index. The platform is also connected to the air-conditioning systems via the Internet of Things (IoT) to support proactive temperature setting mechanisms. It not only increases energy efficiency in a building but also improves the comfort of the indoor environment.

ALUMNI CORNER

Dr Lam obtained his Higher Diploma in Information Systems in 2007, Bachelor of Science (Honours) in Information Technology in 2009 and Doctor of Philosophy in Computing in 2015. During his ten years of study at COMP, Dr Lam demonstrated his keen interest in applying cutting-edge technologies to green buildings and smart cities. Before his PhD graduation, Dr Lam won the Entrepreneurship Award of PolyU Micro Fund in 2012 with his outstanding business proposition "Sustainable iBuilding Management Platform". He later established MEGA Automation Ltd with the support of PolyU startup fund and enhanced the initial model with Dr Wang, the supervisor of his PhD study.

Exploiting research outcomes directly in real-world projects is always difficult as there are many unforeseeable factors at the development stage. Throughout the process, Dr Wang provided substantial support on the research side while Dr Lam played a key role in transforming the technology into real-world applications upon receiving the clients' feedback and the deployment results. The team solved the challenges together and exemplified a close collaboration between academia and enterprise.

Dr Lam plans to add more features on top of the existing model to further enrich the application scenarios of SAP. He will work with the property management and land developers to deploy SAP in the new buildings, hope it becomes part of their smart building solutions.

COMP alumni are most welcome to update their profile at PolyU's new Alumni Portal at:

alumportal.polyu.edu.hk

DEPARTMENT UPDATES

New academic staff

Warmest welcome to the new faculty members who have joined our strong academic team.



Prof. CHEN Changwen
Chair Professor of
Visual Computing



Dr LI Richard
Research Assistant
Professor



Dr XU Linchuan
Research Assistant
Professor



**Dr DE CARNE DE
CARNAVALET Xavier**
Research Assistant
Professor



Dr LIN Wanyu
Research Assistant
Professor



Dr XU Wenchao
Research Assistant
Professor



Dr FAN Wenqi
Research Assistant
Professor



Dr LYU Mingsong
Research Assistant
Professor



Dr XUE Jeremy
Research Assistant
Professor



Dr GAO Jason
Research Assistant
Professor



Dr SHEN Jiaxing
Research Assistant
Professor



Dr YANG Bo
Assistant Professor



Dr HU Chuang
Research Assistant
Professor



Dr SHI Jieming
Assistant Professor



Dr YANG Sibe
Research Assistant
Professor



Dr HUANG Xiao
Assistant Professor



Prof. TAN Kay Chen
Chair Professor of
Computational
Intelligence



Dr ZHANG Maggie
Research Assistant
Professor



Dr LI Bo
Assistant Professor



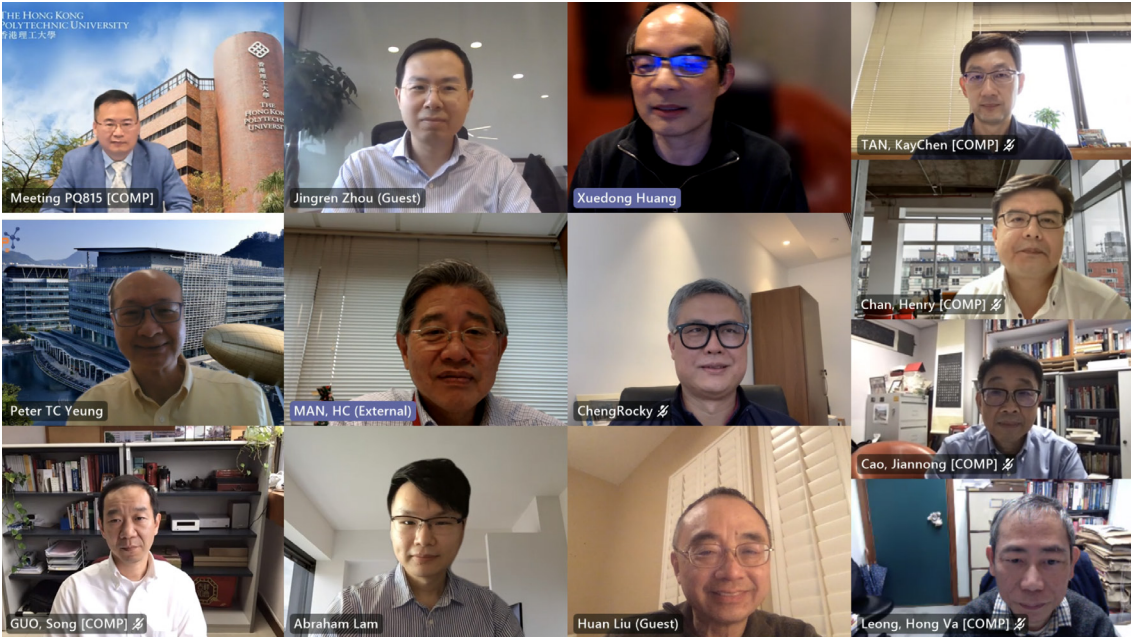
Dr XIA Xianjin
Research Assistant
Professor



Dr ZHOU Kai
Assistant Professor

Departmental Advisory Committee (DAC) Meeting

On 26 February 2021, we hosted the 67th meeting of the DAC to review and discuss the directions of our programmes, research and other activities. The DAC plays an important role in steering the education, research and strategic development of the Department as well as facilitating our collaboration with the related professions.



We possess a broad and close connection with the academic community and the technology industry. Notable scholars and distinguished practitioners are serving as our DAC members.

Chairman

Dr HUANG Xuedong
Technical Fellow and Chief
Technology Officer of AI Services
Microsoft, USA

External Members

Mr CHENG Rocky
General Manager of Information
Technology
Bank of China (HK) Ltd.

Dr LAM Abraham
Director, MEGA Automation Ltd.
Director, Shenzhen FUSQUARE
Technology Ltd.

Dr LEI James
Senior Director
Artificial Intelligence and Big Data
Analytics
ASTRI, Hong Kong

Prof. LIU Huan

Professor of Computer Science
and Engineering
School of Computing, Informatics,
Decision Systems Engineering
Ira A. Fulton Schools of
Engineering
Arizona State University, USA

Ir YEUNG Peter

Head of Electronics & ICT Clusters
Hong Kong Science and
Technology Parks Corporation

Dr ZHOU Jingren

Senior Vice President
Alibaba Group, China

Ex-officio Members

Ir Prof. MAN H.C.
Dean
Faculty of Engineering, PolyU

Prof. LI Qing
Chair Professor and Head
Department of Computing, PolyU

Internal Members

Dr CHAN Henry
Associate Professor and
Associate Head (Partnership &
Collaboration)
Department of Computing, PolyU

Prof. GUO Song
Professor and Associate Head
(Research & Development)
Department of Computing, PolyU

Dr LEONG Hong Va
Associate Professor and Associate
Head (Teaching & Learning)
Department of Computing, PolyU

Master of Science in Information Technology is accepting applications until 30 April 2021



Application &
Programme Info



Big data and financial technology are hot topics in recent years. Ms Emily Cheuk is passionate to explore these cutting edge technologies through postgraduate study, therefore she chose COMP MSc in Information Technology which offers the Stream in AI & Big Data and Stream in AI & FinTech.

"Working at PCCW Solutions as a Graduate Trainee, I want to become a successful IT system architecture programmer. The practical coursework and knowledge from the lectures of MScIT are inspiring. Also, the tech know-how shared by the classmates broadens my horizons. Attending a master programme in part-time mode, it is critical to have self-motivation, curiosity, time and stress management. Such experience will definitely give me positive impacts on my future career."

After graduated from COMP, Mr Eddie Li established a startup in 2019 with the support of PolyU Micro Fund. Currently, he is the Co-founder of Green One Lab Limited and Walking Partner Design Lab Limited.

"To strengthen my understanding of the emerging technologies and keep myself abreast of the fast-advancing digital world, I decided to further my postgraduate study. The COMP MSc programme not only covered the technological aspect but also business management skills that prepared me for my future career. The flexible course structure offered a wide selection of subject to suit my interest and goal. Meanwhile, the programme gave me a perfect mixture of theoretical and practical knowledge. All these have laid a solid foundation for the development of my entrepreneurship."



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