

The Solutions to be Showcased by the Exhibitors
on the IT Innovation Lab in Schools Programme - Sharing and Solution Day
on 28 September 2024

2024 年 9 月 28 日
学校 IT 创新实验室计划 — 分享及方案日
参展商将展示的活动方案

Exhibitor 参展商	The solutions to be showcased on the 1/F 一楼展示的活动方案
1.	<p>We will showcase products and services designed for local primary and secondary schools' STEM courses and activities. These include AI robotics workshops, programming courses, Chinese culture-themed STEM activities, and tech products. All courses offer on-campus instructor support, with flexible scheduling based on school requirements. Some courses also provide pathways to international or national competitions.</p> <p>我们将展示专为本地中小学创科课程及兴趣活动设计的产品和服务，包括 AI 机器人实践课程、编程课程、中华文化主题创科活动，以及相关的科技产品。所有课程均提供入校导师服务，课时可根据学校需求灵活安排，其中部分课程还可衔接国际或国家级比赛。</p> <p>#PriSch #SecSch #SENSch #AI_Robotics #STEM</p>
2.	<p>AI Quadrupedal Robot – for primary and secondary</p> <ul style="list-style-type: none"> • The robot is equipped with camera and infrared sensors that can perform different level of AI capabilities. • The Robot has 12 degrees of movement and each leg with 3 joints driven by servo motor. This configuration enable flexible and free movement of the robot. • Use 32-bit microcontroller with full support of graphical and Python programming. • Lectures and lab material is available. <p>Service – training</p> <p>#PriSch #SecSch #AI #Robotics</p>

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3.	<p>For the first time in the region, STEM-knowledge based inventions and innovations of local technology start-up companies are converted into ECA based STEM education materials to create a new approach to STEM education. One that connect our students with real world applications that make STEM education fun and practical.</p> <p>An unprecedented platform of education materials comprising of ICT, AI, IoT, robotics and ESG to name a few.</p> <p>#SecSch, #ECA, #TechStart-up, #Entrepreneurshp, #Innovation&inventions</p>

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1.	<p>引领教学新体验！在 Unity 平台上进行游戏开发，激发学生对未来科技的兴趣与应用，提升学习动力与创造力。</p> <p>#PriSch #SecSch #SENSch #Unity #Game_Design</p>
2.	<p>服务超过 400 所学校和 3 万名学生，致力以创新科技塑造优质教育，研发涵盖 AI 自动评分与回馈系统、AI 及 Micro:bit 虚拟课室，并提供国际认可的证书课程和比赛支持等到校培训服务。</p> <p>#AI #STEM #Python #Certificate #Competition</p>
3.	<p>想知道 STEAM 最新的发展?于本摊位你将可以体验到人工智能(AI)、物联网(IoT)、神经元(Neural Network)、FPV 赛车、Switch Game Design 等最新的 STEAM 教育项目。由幼儿园到高中、由图像化编程以至 Python，呢度有齐你要的课程数据！</p> <p>#PriSch #SecSch #SENSch #AI #IoT</p>

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4.	<p>Using Immersive Virtual Environments to Master Prompt Engineering. This solution enables students to create a 360-degree virtual environment, using prompts to develop unique AI characters. Learning areas:</p> <ul style="list-style-type: none"> • Using prompts to create intelligent AI characters; • Using prompts to generate 360-degree virtual environments; • Integrating gamified storytelling. <p>Elevates problem-solving skills with AI-Robotics through competitions Comprehensive training program in electronics, coding, robotics, and AI skills, target for national and overseas super AI competitions</p> <p>运用沉浸式虚拟环境学习提示工程(Prompt Engineering)让学生能自学创建一个 360 度虚拟环境，运用提示，创建独特的 AI 人物。学习范围：</p> <ul style="list-style-type: none"> • 运用提示创建智能 AI 人物； • 运用提示生成 360 度虚拟环境； • 结合游戏化的故事叙述。 <p>从竞赛中锻炼 AI 机械解难力，全方位培训学生电子、编程、机械、AI 技能，参与国家及海外超级 AI 赛事。</p> <p>#PriSch #SecSch #SENSch #GenerativeAI #AI_Robotics</p>

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5.	<p>Awarded the STEM Mark Certification, our one-stop AI solution, jointly developed with top-notch AI corporations, offers students the chance for AI experiences, certificate courses, and application opportunities in innovation competitions.</p> <p>与领先 AI 科技企业联手开发的一站式 AI 教学历程，获香港工业总会的 STEM 认证。AI 方案包含全级体验日、证书课程及科创比赛。学生将了解 AI 概念及应用可能；他们更可设计独有的 AI 产品及编写 AI 模型。</p> <p>#AI #Certificate #Competition</p>
6.	<p>服务学界多年经验，网罗各式各样的应用科技解决方案，本次活动展出 AIoT、机械人编程、Swift Coding、VR/AR 及 STEAM 等。</p> <p>#AIoT #机械人编程 #Swift #AR_VR #STEAM</p>
7.	<p>Carbnovo Tree (碳新树) is an innovative square tile designed to grow green algae for CO2 reduction, contributing to effective ESG reporting. C-Mesh (CM 碳联网) is a network of AI sensors that monitors CO2 levels in outdoor hydroponic systems, enabling insights into plant life cycle and genetics for enhanced sustainability.</p> <p>#AI #Carbon #ESG #Science #IoT</p>

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8.	<p>让学生制作一个属于您学校的互动 AI 校史廊吧！在我们的课程中，学生将学习如何透过 3D 建模和 AI 技术亲手设计和体验校史。让 AI 学生角色讲述学校历史，让学校历史不再枯燥乏味，而是充满互动与活力！</p> <p>#互动学习 #AI 技术 #AI 校史廊 #AI 对话 #体验校史</p> <p>Encourage students to create an interactive AI history hall for your school! In our course, students will learn how to design and experience the school's history using 3D modeling and AI technology. Let AI avatars narrate the school's history, making it engaging and lively rather than dull.</p> <p>#InteractiveLearning</p> <p>#AITechnology #SchoolHistory #StudentInvolvement #InnovativeProject</p>
9.	<p>进入无人机编程教育界 2.0！</p> <p>提供 AI 人工智能体验，配备可调节云台的智能摄像头，让学生探索循线、射击等创新功能。当然唔少得悦目既群飞表演！</p> <p>同场加映「竞技编程机械人」</p> <p>全新机械人链接亚运会主题「数智竞技」，结合编程、机械工程和 3D 打印，让学生打造自己的机械人，编程解难！挤身于 STEM×运动竞技的盛事。</p> <p>#Drone_Upgrade #Swarmfly #Competition #Robotic #Code_Challenge</p>

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10.	<p>Web 3.0 era emphasizes user-generated content-oriented. Understanding productivity tools for content creation is crucial to our students and teachers. Throughout our training and workshops, not only students could have a taste of special job roles such as game designers or digital artists, but they could also master innovative technologies such as Blockchain and Generative AI. The school may also get a chance to showcase students' outstanding performance on the famous metaverse platform!</p> <p>#Blockchain #Metaverse # GenerativeAI #Game_Design #Digital_Art</p>
11.	<p>Ignite students' passion for learning and nurture future innovators! We offer a diverse range of STEAM education tools and solutions, covering robotics, coding, technology, and more, along with supporting curriculum and materials. We also provide support for educators, and host international STEAM competitions and exchange programs for a richer learning experience for students.</p> <p>激发学生学习热情，培养未来创科人才！我们提供多元化的 STEAM 教育工具和解决方案，涵盖机械人、编程、科技等领域，并提供配套课程和教材。我们亦提供服务支持教育工作者，并举办国际 STEAM 比赛及交流团，为学生提供更丰富的学习体验。</p> <p>#PriSch #SecSch #SENSch #STEAM #Robotics</p>

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12.	<p>Our mission is to provide a rich range of innovative educational products and solutions, actively support learning, promote student's progress in all areas of development, and are committed to providing high-quality AI learning materials as well as STEAM Educational products and solutions for schools.</p> <p>我们致力提供丰富的创新教育产品和解决方案，积极支持学习，促进学生各领域发展进步，承诺为学校提供优质的 AI 学习教材以及 STEAM 教育产品和解决方案。</p> <p>#Microbit_AI #Raspberry_Pi_AI #中小学 AI 教材 #STEAM</p>
13.	<p>为院校度身订造各类 STEAM 教学方案，助学校指导学子全方位探索创科世界！展位内会展示 AI 机械产品、智能六轴机械人臂及各式各样的创科教育方案。诚邀各位校长、老师同工前来参观！</p> <p>#AI_Robotics #Robotic_Arm #STEAM</p>
14.	<p>Our booth showcases innovative solutions integrating AI, IoT, and robotics to enhance learning across elementary to secondary education. We'll demonstrate how creative 3D building blocks and robot programming platforms empower teachers and students to achieve academic excellence in schools.</p> <p>我们的展台展示了将人工智能、物联网和机器人技术融合的创新解决方案。旨在提升从小学到中学各个教育阶段的学习体验。我们将展示如何利用创意立体积木和机器人编程平台来支持教师和学生实现卓越的教与学成果。</p> <p>#PriSch #SecSch #SENSch #AI #IoT</p>

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15.	<p>Our company is where creativity meets technology, empowering students aged 10-18 to use their creativity to better harness IT for coding and problem-solving. Our program blends hands-on experience with cutting-edge AI tools and real-world applications, helping students prepare for future careers in technology. We offers a comprehensive curriculum that enhances problem-solving abilities, fosters logical thinking, and equips students with the skills needed to excel in today’s digital world. Join us in shaping the next generation of IT innovators and problem-solvers.</p> <p>#PriSch #SecSch #Coding #AI #Logical_Thinking</p>
16.	<p>我们将会展示 24-25 年度 Microbit AI 编程赛示范，计算机与科学跨学科器材。</p> <p>#PriSch #SecSch #Microbit_AI #Competition #Cross_Curricular</p>
17.	<p>一起开启您的网络安全未来！</p> <ul style="list-style-type: none"> ● 尖端课程：网络安全专家课程，培育和提升学生的网络保安知识及兴趣。 ● 认证：获得网络安全公司的权威认证，全球顶尖雇主认可。 ● 职业发展：掌握高需求技能，为学生更容易获得相关职业机会。 <p>#Future_Skill #Cyber_Security</p>
18.	<p>"VEX Robotics" is a global leader in STEM education. Our mission is to help educators build capacity and help students become the future problem solvers of tomorrow. VEX's K-Career continuum of standards aligned curriculum, educator certification, hardware and software can help scaffold a student's learning journey.</p> <p>#STEM #Robotics #Computational_Thinking #Coding #Physical_Computing</p>

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19.	<p>A comprehensive solution provider for primary and secondary school with the provision of hardware, software & training courses. We provide schools with the latest technology for STEAM, coding, creativity and design, AR & VR experiences. Our expertise extends to providing guidance on IT projects.</p> <p>我们专为中小学提供硬件、软件和培训课程。我们为学校提供最新的 STEAM、编程、创意设计、AR 和 VR 技术。我们的专业知识还包括提供 IT 项目的指导。</p> <p>#PriSch #SecSch #STEAM #Coding #AR_VR</p>
20.	<p>Various e-Learning & STEAM Education solutions, such as:</p> <ul style="list-style-type: none"> • a platform for creation of XR (AR/VR/MR) content with minimal programming. It lowers the technical barrier for XR creation, promoting the widespread application of XR. • a multi-functional AI education tools that provides high-performance computing and multi-mimicry robotics. Supports a variety of programming tools, catering to the AI education needs from basic to advanced levels. <p>#PriSch #SecSch #SENSch #STEAM #XR_Platform</p>

Note: The solutions on IT-related extra-curriculum activities are for reference only and are subject to change. Also, it does not imply that the solutions are recommended by the Digital Policy Office and the Hong Kong Association for Computer Education.

注: 资讯科技相关的课外活动方案仅供参考, 可能会有变动。此外, 并不代表数字政策办公室及香港计算机教育学会推荐这些方案。