

TUM Asia 夏令营 2024

2024年8月11日至17日

新加坡



关于 TUM Asia

慕尼黑工业大学（TUM）成立于1868年，是欧洲最具研究密集型和创新性的大学之一。它在2024年QS世界排名、2023年《泰晤士高等教育》和2022年上海排名中均位列欧洲前10名，并产生了18位诺贝尔奖获得者。为了将德国的学术卓越带到世界各地，TUM Asia于2002年成立，并且是任何德国大学最成功的海外校区。除了提供由TUM授予的学士和硕士学位以及与新加坡知名大学联合授予的学位外，TUM Asia还提供工业4.0、精密工程和铁路与物流等领域的高管教育课程。为了提高制造业的能力，TUM Asia与FESTO新加坡合作成立了数字化、技术和创新能力中心（CDTI），提供终身学习课程。截至目前，来自35个国家的2300多名学生已从TUM Asia毕业，在各个行业中建立了自己的基础。2010年，TUMCREATE成立，作为一个多学科的研究平台，以促进TUM与世界领先大学、本地机构、公共机构和行业伙伴之间的双边研究交流，致力于社会的可持续转型。TUMCREATE由新加坡国家研究基金资助，在城市交通、食品科学和技术、生物医学技术和预防性医疗保健、能源等研究领域取得了进展。

欲了解更多信息，请访问 <https://tum-asia.edu.sg>

活动日程

Date	Schedule
Sunday, 11 August 2024	Arrive in Singapore
Monday, 12 August 2024	Welcome Activities
	Lecture: Sustainable Consumption & Entrepreneurship in Sustainability in Singapore
	Lecture: Computer Vision for Smart Manufacturing and Smart Transportation
Tuesday, 13 August 2024	Lecture: Cost benefit analysis for Sustainable Transportation
	Lecture: Circular Economy and Reducing Waste in Sustainable Infrastructure
	Visit to MAS Gallery
Wednesday, 14 August 2024	Lecture: Success Factors in Driving Digital Transformation
	Visit to Sustainable Singapore Gallery
Thursday, 15 August 2024	Lecture: Leadership, Communication & Decision-Making in High Stakes Environments
	Industry Visit: Supercharge SG
Friday, 16 August 2024	Lecture: Smart sustainable manufacturing
	Student Presentation
	German Lunch at Paulaner
Saturday, 17 August 2024	Depart Singapore

企业参观

MAS Gallery

了解MAS如何为可持续经济增长奠定坚实基础，并将新加坡发展为一个充满活力和进步的全球金融中心。随着行业随着技术变革继续发展，了解MAS如何在塑造金融未来方面发挥领导作用。了解技术和创新如何可能改变金融服务的交付方式。



SUPERCHARGE SG

SuperCharge SG重新定义了电动汽车充电，致力于可持续发展。他们的充电点不仅仅具备功能性，还集成了最先进的光伏太阳能技术和绿色建筑策略，创造一个更环保、更清洁的未来。

我们的讲师



Dr. -Ing. Andreas Rau

TUM Asia, Head of Education and Research (Civil Engineering)

Dr. Andreas Rau is a transportation engineer working at Technical University of Munich Asia, Singapore as the Faculty Head and Principal Investigator (Rail, Transport & Logistics). He was Principal Investigator of the Rapid Road Transport Group in TUM CREATE Singapore from 2011 till 2021.

His significant research experience contributed in public transport planning, development and implementation workshops and research projects funded by public transport authorities, and education institutes in Germany and Singapore. With a strong academic and teaching background, Dr. Rau was the Founding Director of MSc programmes at TU München and TUM Asia, Singapore. He is a frequent speaker in seminars, conference and training from all around the world.

Dr. Rau's research interests are in the area of public transport planning, especially for developing and emerging countries. This stretches from the network planning, the creation of integrated transport chain to the optimization of bus lines. The scheduling of transit lines for buses and trains, from the design of the timetable till the creation of duties and rosters for the drivers are also topics covered by Dr. Rau. Assessment methods for transport infrastructure and policies for a sustainable transport system development are research interests of Dr. Rau as well.

我们的讲师



Dr.-Ing Ali Bawono

TUM Asia

Planning the Future of Electromobility to Achieve Sustainable Transportation

The electromobility concept has now started to become a trend and it is often seen as one of the alternatives in achieving sustainable transport. Electromobility was first developed in the 1880s and since that time has grown into extensive modes of private vehicles, and public transport modes including buses, trams, two-wheelers, trains, and trolleybus systems all over the world. Planning a sustainable electromobility requires a comprehensive strategy, clear framework, and integration of multiple systems including vehicles, infrastructure and charging infrastructure, energy, and connectivity. On the other hand, there are impediments and challenges in electromobility implementation that needs to be strategically handled. Policies, regulations, and financing schemes supporting electromobility should be planned and embraced. This topic aims to address the latest study on electromobility. Case studies will be presented.

我们的讲师



Mr. Nithin Narayanan

La Empresa, CEO

Nithin Narayanan is the founder and CEO of La Empresa Pte Ltd, a dynamic innovation-based tech company headquartered in Singapore. La Empresa's focus spans across manufacturing management, software development, and electronics manufacturing, positioning them at the forefront of technological advancement. Nithin is deeply engaged in advancing his knowledge and expertise through doctoral studies in business administration with a specialization in Leadership and Management. He has completed his Masters in Business Administration (Northumbria University of Newcastle, the UK) and his Bachelors degree in of Mechanical Engineering with a specialisation in Mechatronics (Nanyang Technological University, Singapore). His versatile skill set extends and not limited to agile team facilitation and being a certified SAFe5 Agilist, showcasing his adaptability and commitment to adopting the latest methodologies. Apart from his role as an industry leader, he is a PMP certified project manager with an impressive 12-year industrial experience across diverse sectors.

Nithin's professional journey is underpinned by a multifaceted background in Project Management, Engineering, Technology, and Operations and Manufacturing Management. Nithin won numerous prestigious accolades and awards that attest to his profound expertise in manufacturing services and management. Notably, his achievements include the Rolls Royce Gold Award for BCM & Innovation, the Rolls Royce Green Award for generating recurring savings of 1 million per year, and the Rolls Royce EVP Award for pioneering Super Polish and Mag Robots(advance manufacturing). He was awarded Lean Six Sigma Green Belt for his contributions to global business improvement, specifically in the realm of additive and advance manufacturing.

In his capacity as the Manufacturing Services Leader (Senior Manager) at Rolls-Royce Singapore, Nithin has demonstrated his prowess in overseeing complex operations and optimizing business performance. Additionally, his tenure as a Project Manager at Azbil Corporation and an Assistant Project Manager at Quantum Automation Pte. Ltd, Singapore, has fortified his ability to drive strategic initiatives and enhance overall efficiency in project and engineering management and elevating manufacturing performance. He have employed methodologies such as manufacturing value stream mapping and kaizen events to consistently improve processes. He have spearheaded the design and delivery of manufacturing services objectives through cutting-edge solutions like IoT integration, automation, and data analysis.

我们的讲师



Mr. Bala Rukmangathan is a versatile professional with experience as an Architect, Airline Captain, and CRM Instructor. His background includes extensive aviation experience with Scoot and Singapore Airlines, as well as entrepreneurship with SuperCharge.SG, is a prominent Electric Vehicle Charging company in Singapore.

我们的讲师



Ms. Suzanna Tang

CEO and Founder, Urban Origins

Suzanna is an accomplished entrepreneur and advocate for positive change, currently serving as the CEO and founder of Urban Origins. Dedicated to fostering sustainability and wellness, her consultancy curates engaging activities for corporates, creating a culture of health and sustainability in workplaces.

Suzanna holds certifications in Sustainability Strategies and Green Economy from Singapore Management University (2023) and Blockchain Technologies: Business Innovation and Application from MIT Sloan School of Management (2023). In 2015, she achieved her Bachelor of Communication Studies (Honours) with a Minor in Music from Nanyang Technological University and earned her Postgraduate Diploma in Education from the National Institute of Education, Singapore the year after.

Beyond her entrepreneurial endeavours, Suzanna is deeply committed to education and youth empowerment. As a proud mother of two and a former scholar of the Ministry of Education, she understands the importance of nurturing future generations. Suzanna embodies purpose-driven entrepreneurship. Her work creates a lasting impact, sparking positive change and encouraging the adoption of sustainable practices for a better future.

我们的讲师



Dr. Chen Lujie

Associate Professor, DigiPen (Singapore)

Dr. Chen Lujie received his bachelor's degree in mechatronics from Nanjing University of Technology, China in 2001 and his Ph.D. in Optical Metrology from the National University of Singapore in 2006. His research interests lie in the fields of computer vision, computer graphics, and medical imaging.

Prior to joining DigiPen (Singapore), Lujie was an assistant professor at the Singapore University of Technology and Design for nine years and a post-doctoral associate at Cambridge University from 2007 to 2010. He has also worked as a software engineer in image processing, computer graphics, and computer vision technologies in the industry.

Lujie joined DigiPen (Singapore) in 2021 and teaches topics related to computer vision and video processing in the MS in Computer Vision program. What he enjoys most about teaching is interacting with students and helping them with their course projects.

About DigiPen

DigiPen Institute of Technology Singapore is a specialized university for the digital economy, with a focus on computer science, embedded systems engineering, UX/UI design, and digital art and animation.

Our educational philosophy focuses on team projects and applied learning. Students are taught to be problem solvers and innovators through real-world projects, ultimately graduating as sought-after professionals in various digital domains such as games, enterprise software, virtual reality, finance, digital entertainment, automotive technology, and more.

我们的讲师



Dr. Jovina Ang is a director at Communicatio, an affiliate faculty of TUM Asia and EHL Singapore, and a former corporate executive of multiple Fortune 500 companies including Microsoft, Dell and Cisco Systems. Throughout her career, she has led many digital transformation efforts. She is a board member and an author of five books including a book on “Managing People, Data and Culture in the Modern Organization”. Dr. Ang holds a Ph.D. from Singapore Management University.

申请要求

大学本科在读或毕业生都有资格申请参加夏令营项目。所有课程都将用英文进行授课，学员应具备大学水平的英语阅读与写作能力。

项目结束后，符合以下要求的同学将获得由慕尼黑工业大学亚洲(TUM Asia)颁发的夏令营项目证书：

- 学员需要符合75%的出勤率

项目费用

套餐1：新币2,530.00 /每人

- 费用包括20234年慕尼黑工业大学亚洲（TUM Asia）夏令营项目的住宿、课程和活动，仅适用于一名申请者。机票、餐费、个人休闲活动、公共交通费用以及旅行保险不包含在费用中。将提供等同于四人间的住宿。
 - 包括住宿——每人一个房间
 - 报名截止日期：2024年7月19日（星期五）
 - 付款截止日期：2024年7月26日（星期五）
 - 酒店：Park Avenue Rochester[^]
 - 入住日期：2024年8月11日（星期日）
 - 退房日期：2024年8月17日（星期六）
- [^]TUM Asia reserves the right to change the hotel, subject to availability.

套餐2：新币1,100.00 /每人

- 不包括住宿，参与者需自行解决在新加坡的住宿。
- 报名截止日期：2024年7月29日（星期一）

住宿详情

- 套餐1包括Park Avenue Rochester（高级房）住宿。每人一个房间。
 - 入住日期：2024年8月11日
 - 退房日期：2024年8月17日
- 针对希望自行预订酒店的参与者建议。TUM Asia正在与 Village Hotel Albert Court合作，并为成功支付活动费用的同学预留了有限数量的客房，以优惠价格订。强烈建议参与者在2024年7月21日的截止日期之前预定您的酒店。酒店客房数量有限，视客房供应情况而定。

Village Hotel Albert Court

地址：180 Albert Street Singapore 189971

房型：豪华房

入住日期：2024年8月11日

退房日期：2024年8月17日房价（每房每晚）：新币220元净价（单人/双人入住）

上述Albert Court酒店的价格包括10%的服务费和9%的商品和服务税。强烈建议参与者在2024年7月21日（星期三）之前预订酒店。酒店房间数量有限，视供应情况而定。参与者需直接通过酒店预订表预订房间，该表格将在收到项目费用后由TUM Asia发送给您。

报名

请通过发送电子邮件至 events@tum-asia.edu.sg 报名，邮件主题为“TUM Asia Summer School 2023 Registration”，并包含以下信息和支持文件（以下信息请用英文填写）：

- 全名
- 出生日期
- 护照或身份证号码
- 邮箱
- 手机号码
- 大学
- 专业
- 毕业年份
- 夏令营选择：1 或 2
- 文件(附件):
 - 护照或身份证个人信息页
 - 中英文版本的大学成绩单或在读证明

完成电子邮件报名后，您将收到一封电子邮件，其中包括如何支付项目费用的指示。在您完成付款后，您将通过电子邮件收到通知，确认您已经成功注册参加2024年夏令营项目。

如果您在报名方面遇到任何问题，[请随时发邮件到events@tum-asia.edu.sg](mailto:events@tum-asia.edu.sg)