

# FCAPE & AIAM2021

FCAPE 2021 & 3<sup>rd</sup> International Conference on Artificial Intelligence and  
Advanced Manufacturing

## FCAPE2021 年会暨 第三届人工智能与先进制造国际会议

### 线上会议日程 Online Conference Program



腾讯线上会议

Tencent Online Meeting

2021 年 10 月 24-25 日 October 24<sup>th</sup>-25<sup>th</sup>, 2021

# 大会简介

---

---

由全欧华人专业协会联合会(FCPAE)主办, 国际应用科学与技术协会(IAAST)、海外华人科创联盟、湖州师范学院、中英科技贸易协会联合承办的 FCAPE2021 年会暨第三届人工智能与先进制造国际会议(FCAPE & AIAM2021)原定于 2021 年 10 月 23 至 25 日在英国曼彻斯特召开, 由于疫情原因, 最终调整为于 2021 年 10 月 24 至 25 日(周日-周一)线上召开。

作为全欧华人专业协会联合会“FCPAE 欧洲论坛”的学术分会, FCAPE & AIAM2021 以“人工智能与先进制造技术”为主题, 旨在为全世界从事数字化、智能化、绿色化设计、制造、应用的专家、学者及专业技术人员提供一个交流最新研究成果的平台, 并进一步推动全球在人工智能与先进制造领域的发展。

大会围绕主题征集会议论文, 所有提交至本届会议的论文均会安排严格的同行评审, 接收论文将由 ACM/IEEE 出版, 出版后送交 EI Compendex, Scopus 等数据库收录, 遴选的优秀论文将可推荐至 SCI/EI 收录的国际期刊发表。

# Conference Introduction

---

---

FCPAE2021 & 3rd International Conference on Artificial Intelligence and Manufacturing (FCPAE & AIAM2021) was originally planned to be held in Manchester, UK between October 23 and 25, 2021. However, due to the COVID-19 epidemic, the conference will be adjusted to be held online between October 24 and 25, 2021

FCPAE Europe Forum was founded by AICF and ASICEF in 2009. Since then, it has been successfully held for eleven times in Paris (2009), Copenhagen (2010), Brussels (2011), Vienna (2012), The Hague (2013), Frankfurt (2014), Brussels (2015), Hillerød (2016), Paris (2017), Helsinki (2018) and Dublin (2019) respectively. It has attracted thousands of participants and become a platform with great influence in Chinese and European government, enterprises, scientific research institutions.

As an academic branch of FCPAE, AIAM2021 aims to bring together researchers and scientists from artificial intelligence and advanced manufacture, researchers from various application areas to discuss problems and solutions in the area, to identify new issues, and to shape future directions for research. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

# 组织机构

---

---

## 主办单位:

全欧华人专业协会联合会 (FCPAE)

## 承办单位:

国际应用科学与技术协会 (IAAST)

海外华人科创联盟

湖州师范学院

中英科技贸易协会

## 协办单位:

国际智联网系统学会 (INSAI) 欧洲分会

成都信息工程大学软件工程学院

西安财经大学信息学院

浙江理工大学机械与自动控制学院

宁波财经学院数字技术与工程学院

广州五邑大学智能制造学部

## 大会主席:

周盛宗教授, 全欧华人专业协会联合会

## 学术委员会:

### 联席主席(按英文姓名排序):

郭毅可教授, 英国皇家工程院院士、帝国理工大学教授

宋梁教授, 加拿大工程院院士、复旦大学教授

张建伟教授, 德国汉堡科学院院士、汉堡大学教授

### 委员(按英文姓名排序):

Gian Luca Brunetti, 副教授, 意大利米兰理工大学

陈晓东教授, 中国科学院上海高等研究院

傅晓明教授，德国哥廷根大学

何泾沙教授，北京工业大学

胡文军教授，湖州师范学院

黄旭教授，湖州师范学院

蒋林华教授，海外华人科创联盟、全欧华人专业协会联合会

Md Abdus Samad KAMAL, 副教授，日本群馬大学

李俊教授，中国科学院海西研究院

林海翔教授，荷兰代尔夫特大学

卢基存研究员，光华临港工程应用技术研发有限公司

Mohamed Arezki Mellal, 副教授，阿尔及利亚默罕默德布加拉大学

庞成鑫教授，海外华人科创联盟

商慧亮教授，复旦大学

苏代忠教授，英国诺丁汉特伦特大学

汪镭教授，同济大学

王文峰教授，中国科学院、上海临港国际人工智能产业研究院

王泽峰教授，湖州师范学院

徐立鸿教授，同济大学

叶菲研究员，中国科学院、复旦大学

葉國暉教授，台湾国立东华大学

曾新华教授，复旦大学

张煜东教授，英国莱斯特大学

周华教授，复旦大学

**技术(组织)委员会:**

**主席:** 蒋林华教授

**委员:** 张宏伟博士、邢镔博士、智升科博士、张冠华博士、余治昊、叶维彰、李强博士、龙伟博士

# AIAM2021 Organization

---

---

## **Organizer**

Federation of Chinese Professional Association in Europe

## **In Association With**

Shanghai Association of Artificial Intelligence

International Association of Applied Science and Technology (IAAST)

Overseas Chinese Science and Technology Innovation Alliance

Huzhou University

China-Britain Technology Trade Association

## **Sponsors:**

European Branch of Institute on Networking Systems of AI (INSAI)

Chengdu University of Information Technology

Xi'an University of Finance and Economics

Zhejiang Sci-Tech University

Ningbo University of Finance & Economics

## **Institutional Sponsors**

Applied Sciences

## **General Chair**

Shengzong Zhou, Professor, Federation of Chinese Professional Associations in Europe

## **Co-Chairs**

Yike Guo, Professor, Academician of the Royal Academy of Engineering, Imperial College London

Liang Song, Professor, Academician of Canadian Academy of Engineering, Fudan University

Jianwei Zhang, Professor, Academician of the Hamburg Academy of Sciences, Universität Hamburg

## **Committee Member**

Gian Luca Brunetti, Associate professor, Polytechnic University of Milan

Xiaodong Chen, Professor, Shanghai Advanced Research Institute, Chinese Academy of Sciences

Xiaoming Fu, Professor, University of Göttingen, Germany

Jingsha He, Beijing University of Technology

Wenjun Hu, Professor, Huzhou University

Xu Huang, Professor, Huzhou University

Linhua Jiang, Professor, Overseas Chinese Science and Technology Innovation Alliance, Federation of Chinese Professional Associations in Europe

Md Abdus Samad KAMAL, Associate Professor, Gunma University

Jun Li, Professor, Chinese Academy of Sciences

Haixiang Lin, Professor, Technische Universiteit Delft

Jicun Lu, Researcher, Guanghua Lingang Engineering Applied Technology R & D Co., Ltd

Mohamed Arezki Mellal, Associate Professor, M'Hamed Bougara University

Chengxin Pang, Professor, Overseas Chinese Science and Technology Innovation Alliance

Huiliang Shang, Professor, Fudan University

Daizhong Su, Professor, Nottingham Trent University

Lei Wang, Professor, Tongji University

Wenfeng Wang, Professor, Chinese Academy of Sciences & Shanghai Lingang Artificial Intelligence Laboratory

Zefeng Wang, Professor, Huzhou University

Lihong Xu, Professor, Tongji University

Fei Ye, Researcher, Chinese Academy of Sciences, Fudan University

Guohui Ye, National Dong Hwa University

Xinhua Zeng, Professor, Fudan University

Yudong Zhang, Professor, University of Leicester

Hua Zhou, Professor, Fudan University

### **Organizing Committee**

#### **Chair**

Linhua Jiang, Professor, Overseas Chinese Science and Technology Innovation Alliance, Federation of Chinese Professional Associations in Europe

#### **Committee Member**

Guanhua Zhang, Bin Xing, Hongwei Zhang, Zhihao Yu, Zhisheng Kai, Wei-Chang Yeh, Qiang Li, Wei Long

# 会议日程

## AIAM2021 日程安排 (10月24日-25日)

日期	时间	事项
10月24日 星期日上午	<b>Session A 欢迎辞 &amp; 特邀嘉宾汇报</b> 会议主题: AIAM2021 会议时间: 2021/10/24 8:30-12:00 (GMT+08:00) 中国标准时间-北京 点击链接入会, 或添加至会议列表: <a href="https://meeting.tencent.com/dm/Yltxvwqv8SSr">https://meeting.tencent.com/dm/Yltxvwqv8SSr</a> 会议 ID: 331 974 974	
	8:30-8:40	大会主席周盛宗教授致欢迎辞
	8:40-9:00	彭司华教授, 上海东滩智联网研究院 《DeepmRNALoc: A novel predictor of eukaryotic mRNA subcellular localization based on deep learning》
	9:00-9:20	王泽峰教授, 湖州师范学院 《Research on Sports Rehabilitation and Cognitive Rehabilitation for Children with Cerebral Palsy Based on AI》
	9:20-9:40	Gian Luca Brunetti 教授, 意大利米兰理工大学 《Problem decomposition and the black-box issue》
	9:40-10:00	Mohamed Arezki Mellal 教授, 阿尔及利亚穆罕默德布加拉大学 《Bio-inspired techniques to deal with obsolescence》
	10:00-10:10	休息
	10:10-10:30	黄惠燕, MorningSun 科技有限公司 《Multi—lingual Meta Digital Person》
	10:30-10:50	张煜东教授, 英国莱斯特大学 《Deep Learning and medical image analysis》
	10:50-11:10	张建伟教授, 德国汉堡大学 《Crossmodal Learning Approaches to Robust Autonomous Systems》
	11:10-11:30	Sebastian Stober 教授, 德国马格德堡大学 《CogXAI – Cognitive neuroscience inspired techniques for eXplainable AI》
	11:30-11:50	李强教授, 德国比勒费尔德大学 《Robotic dexterous manipulation in Metaverse Era》



10月24日 星期日下午	<b>Session B</b>	
	14:00-18:00	论文海报展示
10月25日 星期日上午	<b>Session C</b> 会议主题: AIAM2021 会议时间: 2021/10/25 09:00-12:00 点击链接入会, 或添加至会议列表: <a href="https://meeting.tencent.com/dm/YnsIX0hzi5zt">https://meeting.tencent.com/dm/YnsIX0hzi5zt</a> 会议 ID: 900 112 727	
	9:10-12:00	学术论文汇报
10月25日 星期一下午	<b>Session D</b> 会议主题: AIAM2021 会议时间: 2021/10/25 14:00-18:00 点击链接入会, 或添加至会议列表: <a href="https://meeting.tencent.com/dm/eM3JtOkrYMua">https://meeting.tencent.com/dm/eM3JtOkrYMua</a> 会议 ID: 181 813 973	
	14:00-18:00	学术论文汇报

# Conference Schedule

## AIAM2021 Conference Schedule (October 24<sup>th</sup>-25<sup>th</sup>)

Date	Time	Item
October 24 <sup>th</sup> Sunday (AM)	<b>Session A: Welcome Speech &amp; Invited Speech</b>	
	Topic: AIAM2021	
	Time: 2021/10/24 8:30-12:00 (GMT+08:00) Beijing Time	
	Click the link below, or add it to your conference list:	
	<a href="https://meeting.tencent.com/dm/Yltxvwqv8SSr">https://meeting.tencent.com/dm/Yltxvwqv8SSr</a>	
	Conference ID: 331 974 974	
	8:30-8:40	Welcome Speech from Prof. Shengzong Zhou
	8:40-9:00	Prof. Sihua Peng, Shanghai East-Bund Institute on Networking Systems of AI 《DeepmRNALoc: A novel predictor of eukaryotic mRNA subcellular localization based on deep learning》
	9:00-9:20	Prof. Zefeng Wang, Huzhou University 《Research on Sports Rehabilitation and Cognitive Rehabilitation for Children with Cerebral Palsy Based on AI》
	9:20-9:40	Prof. Gian Luca Brunetti, Polytechnic University of Milan 《Problem decomposition and the black-box issue》
	9:40-10:00	Prof. Mohamed Arezki Mellal, M'Hamed Bougara University 《Bio-inspired techniques to deal with obsolescence》
	10:00-10:10	Break
10:10-10:30	Huiyan Huang, MorningSun Technology Co. Ltd 《Multi—lingual Meta Digital Person》	
10:30-10:50	Prof. Yudong Zhang, University of Leicester 《Deep Learning and medical image analysis》	
10:50-11:10	Prof. Jianwei Zhang, University of Hamburg 《Crossmodal Learning Approaches to Robust Autonomous Systems》	
11:10-11:30	Prof. Sebastian Stober, Otto-von-Guericke-University Magdeburg 《CogXAI – Cognitive neuroscience inspired techniques for eXplainable AI》	
11:30-11:50	Dr. Qiang Li, Bielefeld University 《Robotic dexterous manipulation in Metaverse Era》	

	11:50-12:00	Closing Speech from Prof. Linhua Jiang
<b>October 24<sup>th</sup></b>	<b>Session B</b>	
<b>Sunday (PM)</b>	13:30-18:00	Poster Display
<b>October 25<sup>th</sup></b>	<b>Session C</b>	
<b>Monday(AM)</b>	<p>Topic: AIAM2021  Time: 2021/10/25 09:00-12:00  Click the link below, or add it to your conference list:  <a href="https://meeting.tencent.com/dm/YnsIX0hzl5zt">https://meeting.tencent.com/dm/YnsIX0hzl5zt</a>  Conference ID: 900 112 727</p>	
	9:00-12:00	Oral Presentation
<b>October 25<sup>th</sup></b>	<b>Session D</b>	
<b>Monday(PM)</b>	<p>Topic: AIAM2021-  Time: 2021/10/25 14:00-18:00  Click the link below, or add it to your conference list:  <a href="https://meeting.tencent.com/dm/eM3JtOkrYMuA">https://meeting.tencent.com/dm/eM3JtOkrYMuA</a>  Conference ID: 181 813 973</p>	
	14:00-18:00	Oral Presentation