

CI-LAM

CHINA-ITALY LABORATORY ON ADVANCED MANUFACTURING

中意 先进制造联合实验室

Building the China-Italy Innovation Ecosystem on Advanced Manufacturing 构建中意先进制造创新生态

GIOVANNI BREGGIO, UNIVERSITY OF NAPLES FEDERICO II

JASON WANG, CHINA SCI-TECH AUTOMATION ALLIANCE



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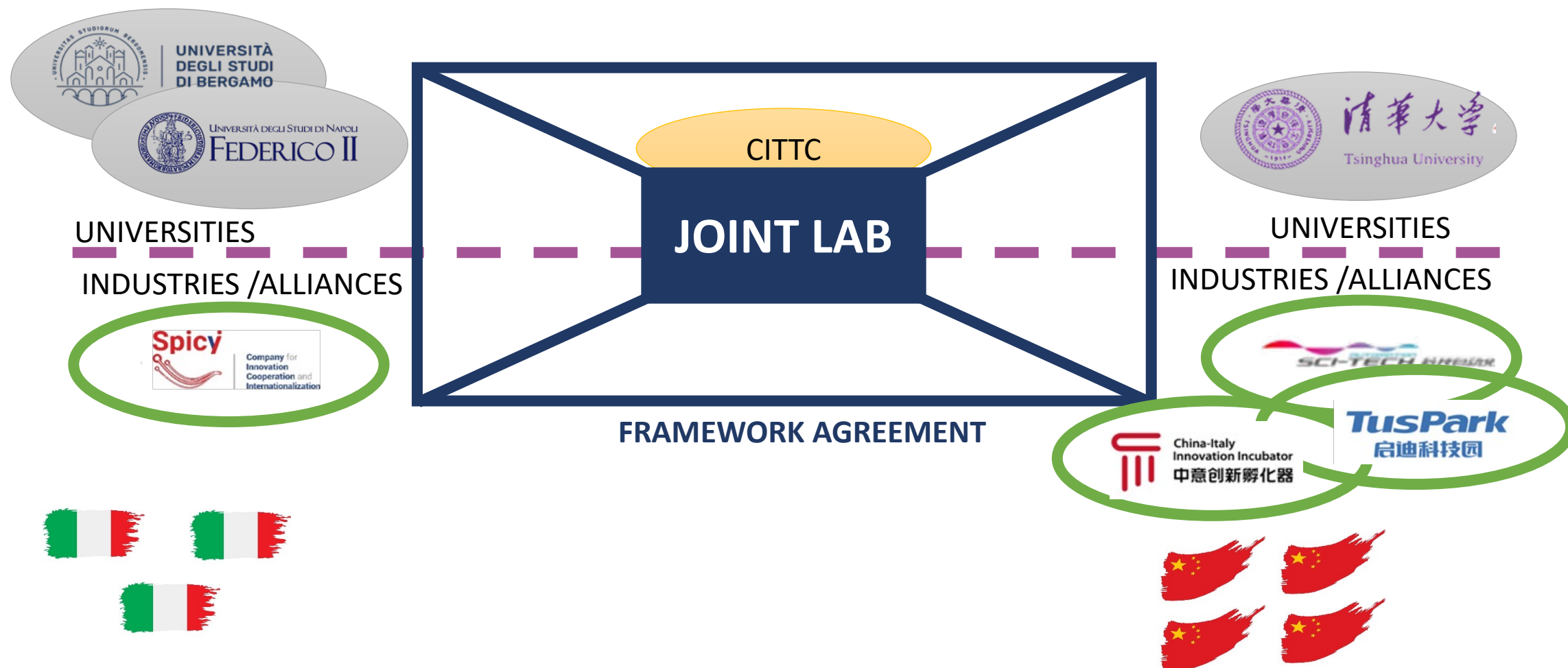
清华大学
Tsinghua University



TusPark
启迪科技园

China-Italy
Innovation Incubator
中意创新孵化器

CILAM : Exclusive 2+2 Model 运作模式



The Belt and Road Joint Lab on Advanced Manufacturing 一带一路先进制造联合实验室

- CILAM was recognized by MOST of China and granted into national list of the belt and road joint lab in 2020.
- This is one of the only two belt and road joint lab between China and Italy.
- A certain amount of financial aid was provided by MOST.

科学技术部文件

国科发交〔2020〕236号

科技部关于批准建设第二批 19家“一带一路”联合实验室的通知

各有关省、自治区、直辖市及计划单列市科技厅（委、局），国务院有关部门科技（国际合作）主管司局，各有关单位：

为贯彻落实习近平主席在两届“一带一路”国际合作高峰论坛的重要倡议精神，推进《“一带一路”科技创新行动计划》，根据“共建共享、需求导向、能力建设、示范引领”的原则，经专家组论证，科技部研究决定批准建设中国—塔吉克斯坦煤电能源清洁转化及高效综合利用“一带一路”联合实验室等19家“一带一路”联合实验室（见附件）。

“一带一路”联合实验室以支撑“一带一路”高质量发展，加快创新型国家建设为目标，积极服务“一带一路”创新之路建设，深化多主体、多层次“一带一路”科技创新合作，深度融入全球创新网络，为推动构建人类命运共同体贡献更多科技力量。

请根据“一带一路”联合实验室相关管理办法的规定和要求，高效配置科技创新资源，为联合实验室提供多元化支持和服务，积极建立管理与协调机制，指导联合实验室建设与运行。

附件：第二批“一带一路”联合实验室建设名单



Action Plan toward 2025

*Ministry of Foreign Affairs
and International
Cooperation of Italy*

- CILAM was recognized by MAECI of Italy as the Italian national platform of cooperation with China on advanced manufacturing



The 1° CI-LAM SUMMER SCHOOL 2019



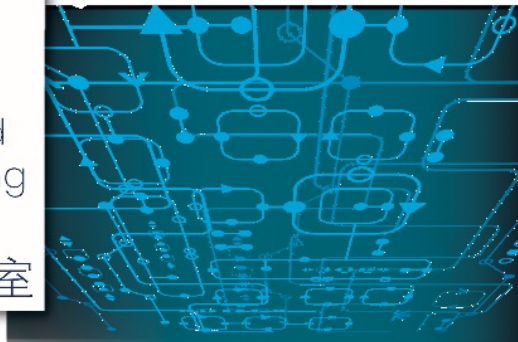
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CI-LAM China-Italy
Joint
Laboratory
on Advanced
Manufacturing

中意先进制造联合实验室



Summer School 1st Edition
Naples, July 15th-28th



The summer school was held in Naples (Italy) and offered 2-weeks programme combining lectures, lab workshops and seminars on tech-transfer and entrepreneurship

MAIN TOPICS:

- Robotics & Industrial Automation
- Digital Systems for Industry
- Web Technologies for Industrial applications
- PLC Programming
- Mechatronic System Design

A very successful Summer School @ Naples



22 Students

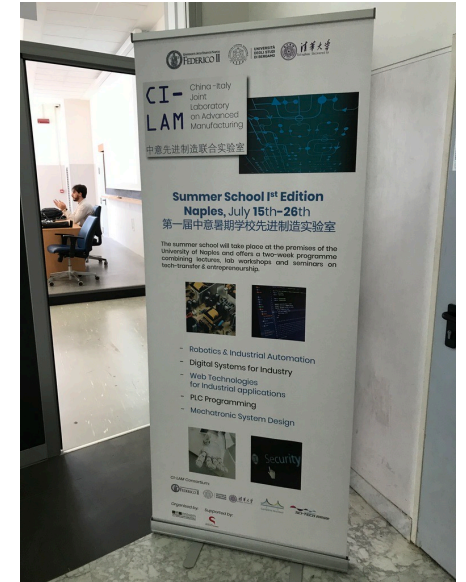
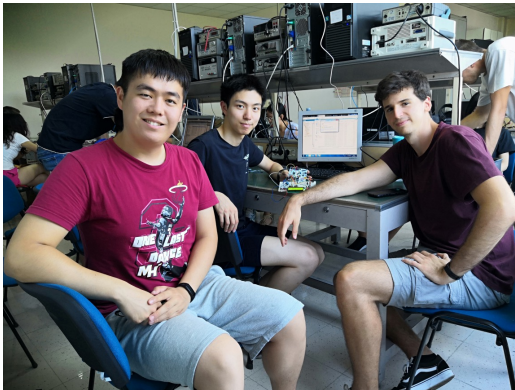
6 Laboratories

85 hours of activities

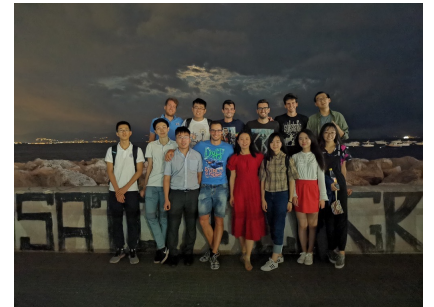
6 Teachers

3 Assistant of Lab

2 Official Social activities



and a *huge amount* of time together!!!



The 2° CI-LAM Summer School 2020

“The future of tech-X”



We had more than **16 hours of lessons**, in **8 different on-line meetings**, from mid-July to early August



At the end of each lesson a discussion was open between the researchers involved on the topic, moderated by the teacher.

This is an opportunity to start new bilateral Italy-China research collaborations



We had at least **100 students enrolled** in the Summer School, coming from the most important Italian and Chinese universities of Masters' and PhDs' schools

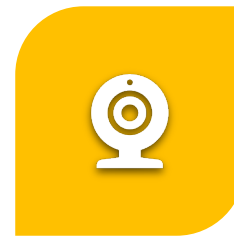
The 8 topics planned for this edition are:



THE ROLE OF QUANTUM
INTERNET



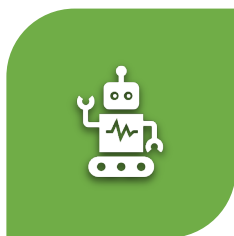
DEVELOPMENT AND
APPLICATION OF POWER
ELECTRONIC
TECHNOLOGY



OPTICAL IMAGING AND
SENSING TECHNOLOGY



SERVICE OPTIMIZATION
AND CONTROL IN 5G



ROBOTICS AND
INDUSTRIAL
AUTOMATION



MOTION CONTROL
OVER FIELDBUS



ADDITIVE
MANUFACTURING



CYBER-SECURITY AND
INFORMATION SECURITY
CORE CONCEPTS

19 Universities Worldwide

您正在观看 Giovanni Breglio 的屏幕

Jason Wang Giovanni Breglio Anne-Marie Br... Dario+Federic... Chiara Romano

Recording

Beijing University of Civil Engineering and Architecture	Southwest Jiaotong University
Dalian University of Technology	Tianjin University
Dongfang Electric Central Research Institute	Tsinghua University
Huazhong University of Science and Technology	Università Carlo Cattaneo - LIUC
North China Electric Power University	University of Chinese Academy of Sciences
Oxford University	University of Electronic Science and Technology of China
Politecnico di Torino	University of Naples Federico II
Shanghai Jiao Tong University	University of Naples Parthenope
Southern University of Science and Technology	University of Salento
	Xi'an Jiaotong University

19 different Universities

解除静音 开启视频 安全 参会者 41 聊天 共享屏幕 录像 表情 离开

Zoom会议

Recording

Giovanni Breglio Anne-Marie Bru... Chiara Romano Giulia Franco 任玲栗

The 3° CI-LAM Summer School 2021

“Inspiring new tech-X generation”



We have provided more than **24 hours of lessons**, in **8 different on-line meetings (with match making)**, from 13th July to 6th August



At the end of each lesson, we had discussion between researchers involved on the topic, moderated by the teacher. We had more than 26 Italian and Chinese Research Groups
This is an opportunity for new bilateral Italy-China research collaborations



We had **59 students enrolled** in the Summer School, coming from the Italian (and EU) and Chinese Universities of Masters' and PhDs' schools

The 8 topics for this edition were:



NEW MATERIAL FOR 3D
PRINTING:
PROTOTYPING AND
PRODUCTION



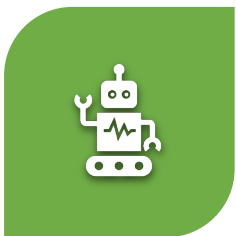
DIGITAL TWIN AND ITS
INDUSTRIAL
APPLICATIONS



ENERGY MANAGEMENT
FOR
ENERGY INTERNET



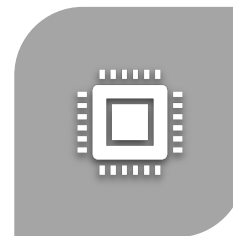
IOT FOR 4.0 INDUSTRIAL
REVOLUTIONS



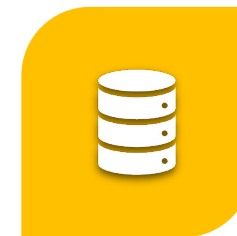
SMART ROBOTICS



OPEN AND DISTRIBUTED
AUTOMATION SYSTEM



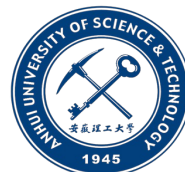
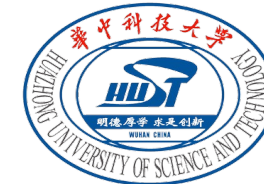
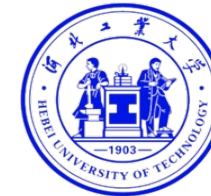
NOVEL POWER
SEMICONDUCTOR
DEVICES, EQUIPMENT
AND DC GRIDS



MACHINE LEARNING IN
ADVANCED
MANUFACTURING

Summer School 2021 : houses of our students

- This year we had **59** students, The students came from 24 different Universities
 - 41 from **China**, 14 from **Italy**,
 - 3 from **Norway**, 1 from **USA**



Research Matchmaking 2021: 研究团队对接

24 different Research Groups



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中国南方电网
CHINA SOUTHERN POWER GRID



INTELLIMECH®
CONSORZIO PER LA MECCATRONICA



清华大学
Tsinghua University



CUHK
香港中文大學



ISTITUTO ITALIANO
DI TECNOLOGIA

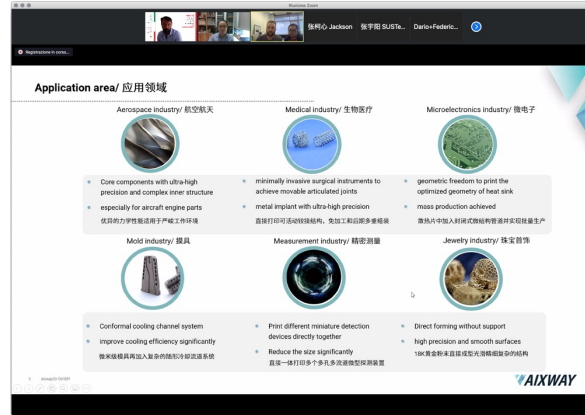


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Innovation Seminar & Matchmaking Program 2020

面向产业界的创新研讨会

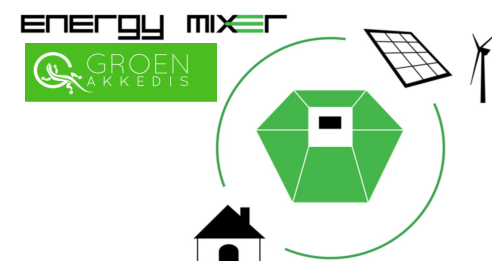


First CI-LAM Innovation
Webinars
(8 events, June-July 2020)

- *Topics:*
- *future manufacturing systems, big data, predictive maintenance, energy internet, functional safety and security, 5G, cobots and energy market.*
- *For each event, a keynote was given by leading expert from industry, then startup teams from both countries showed their products and application solutions, seeking potential collaboration chances.*

Industrial Matchmaking 2020 企业对接

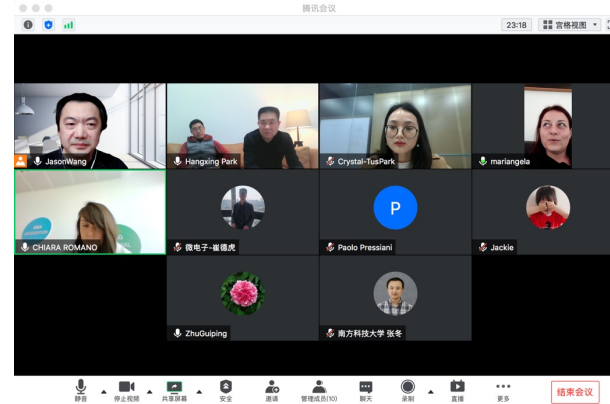
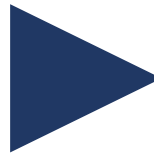
dedicated to SMEs and Start-ups



Innovation Seminar & Matchmaking Program 2021

创新研讨会和擂台赛2021

- Time: 16 December 2021
- Topic: Advanced Technologies and applications in Smart Manufacturing
- Participants: 3+3 from both sides



The Innovation Program 2021 is more in general a “**Competition**” related to innovative applications of common interest in Italy and China. The initiative is targeted to innovative **SMEs, startups and spinoffs** from the two Countries.

At the end of the Event, we had one 1st Italian prize and one 1st Chinese prize . The 2 first prizes won a dedicated matchmaking meeting with at least 2 potential partners



CI-LAM
INNOVATION & MATCH-
MAKING PROGRAM
2021 Edition
中意先进制造联合实验室
创新与对接项目
2021

CALL
召集令

FOR THE SELECTION OF
ITALIAN AND CHINESE INNOVATIVE STARTUPS,
SPINOFFS AND SMEs
TO PARTICIPATE IN INNOVATION AND MATCHMAK-
ING PROGRAM
ON ADVANCED MANUFACTURING
遴选意大利和中国的创新初创公司、衍生公司和中小企业
参与先进制造业创新对接项目
中意先进制造联合实验室2021年倡议

China Italy
Innovation Initiator
中意创新孵化器

FEDERICO II

UNIVERSITÀ
DELLA SIENA
DI SIENNA

SD-TECH

Spicy

TusPark

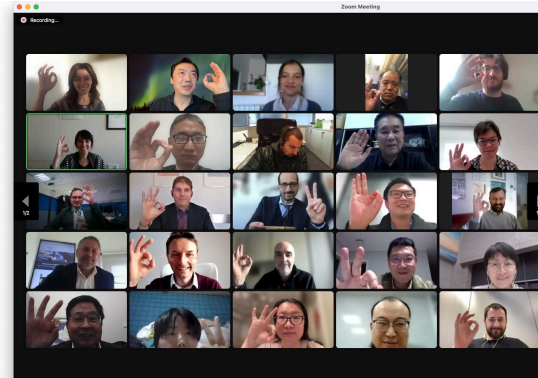
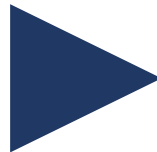
清华大学

联系信息
本召集令所有详细信息仅供参考可以在中意先进制造联合实验室网站上查询：
www.cilam.org
如需获取更多详细或进一步说明，您可以发送电子邮件至以下地址：
innovation@cilam.org

Innovation Seminar & Matchmaking Program 2022

创新研讨会和擂台赛2022

- Time: 1 December 2022
- Topic: 5G/AI/Edge/Vision tech and their applications
- Participants: 3+3 from both sides
- Experts: more than 15 experts



*Thanks to the successful pilot activity of 2021 has been organized the Innovation Program 2022 related to innovative applications of common interest in Italy and China. The initiative is targeted to innovative **SMEs, startups and spinoffs** from the two Countries.*

At the end of the Event, we had one 1st Italian prize and one 1st Chinese prize . The 2 first prizes won a dedicated matchmaking meeting with at least 2 potential partners



For more information

Visit our web site

www.cilam.org

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