

Scalable Automation by Human-Robot Collaboration

人机互动实现可变速自动化

目标与内容 Objectives and Content

The increasing demand for customization, shortened product life-cycles and increasing labor cost are raising new challenges for production system. They are expected to adapt flexibly to frequent changes in products, components and tasks. However, current classical production systems are designed for a low-mix high-volume production. Therefore, the use and application of Collaborative Robots (Cobots) in production systems is constantly increasing. By proper tasks allocation with human operators, a high flexibility and quick adaptability of the processes can be ensured, maintaining a high degree of efficiency through the scalable automation.

与日俱增的个性化需求、越来越短的产品生命周期以及逐渐上涨的人力成本都对生产系统提出了新的挑战。我们希望生产系统能迅速适应多变的市场，但是目前传统的生产系统多数是针对大批量生产生产的。因此，人机协作机器人在生产系统中得到越来越多的应用。通过适当的任务分配，我们可以通过可变速自动化实现过程的高度柔性化，同时保证系统有高效的产出。

参加对象 Target Group

This training is not only designed for industrial engineers, production planning engineers and managers, but also for everyone who is interested in working in and further developing the fields of production, process or supplier improvement.

本次研讨会不仅适用于工业工程师，生产规划工程师和管理人员，同时也为有兴趣从事和进一步发展生产，加工或供应商改进等领域的人员。

大纲 Outline

日期 Schedule

2020.04.24/
2020.08.14/
2020.11.20

价格 Price

RMB 2000

Fee includes lectures, course materials and lunch.

包括会务，资料费，午餐费。

语言 Language

Chinese

- Motivation for scalable automation
- Change enablers and features of changeable drivers
 - Compatibility
 - Universality
 - Modularity
 - Scalability
 - Mobility
- Introduction of Cobot
- Interaction ways with Cobot
 - Use Augment Reality/Virtual Reality for human assistant
 - Multi-modal interaction
- Task allocation for scalable automation
- Case Study: Human Robot Collaboration for assembly line
- Cost analysis for scalable automation
- 可变速制造的动机
- 变化的主驱动力及可变速性的特征
 - 兼容性
 - 普遍性
 - 模块化
 - 可扩展性
 - 移动性
- 人机协作机器人介绍
- 人机交互
 - 利用增强现实、虚拟现实辅助员工
 - 多模态交互
- 可变制造中的任务分配
- 案例研究：装配线的人机协作
- 可变制造的成本分析

地点 Venue:

Seer Doer Partner: Industry 4.0 Demonstration and Innovation Center, Suzhou

遵成合作伙伴：苏州中德工业 4.0 技术展示创新中心

Please contact info@seerdoer.com for onsite training and consulting.

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