

PCBS: PLC based control systems Workshop



Saturday, 5 October 2019 - Saturday, 5 October 2019

New York (USA)

Scientific Programme

Introduction

New institutes presentation
Technology trends in industry

(1) Specifications

Best practices
Trace requirements
Documents and tools: Design, Implementation, User manual

(2) Project development

Standards and/or Frameworks.
Language choice, coding conventions
Novel paradigms: e.g. Automatic code generation, object orientation, external engineering tools, domain specific languages

(3) Testing and verification

Methodologies and tests (FAT, SAT)
Simulation, virtual commissioning
Automated testing
static analysis
Verification: formal methods

(4) Application management

Versioning
Deployment
Online changes, management of changes
Reverse Engineering
Continuous integration