**Highlights**

Dear reviewers:

About contributions to the field of industrial control, the highlights are as follows:

* To pose a user-oriented development method contained a comprehensive optimization method for logic and motion control mixed applications
* To implement the concept by adding sufficient processors, a multi-language supported graphical component to improve the adaptability of developers, and an optimized system structure.
* To implement a distributed control system for the injection molding machine,
* Our system startup time increased by more than 5 times in the case of almost identical key performance, through comparison with the TECHMATION and KEBA systems.