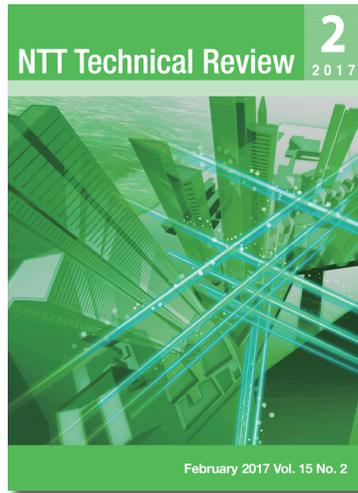


<https://www.ntt-review.jp/archive/2017/201702.html>



Feature Articles

Improving Productivity in Software Development Using Macchinetta Framework

- ▶ Improving Productivity of Software Development on the Macchinetta Framework
- ▶ Improving the Efficiency of Application Development Based on the Macchinetta Framework
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- ▶ Fax Transmission Failure Analysis Method Requiring Multi-signal Analysis

Short Reports

- ▶ Experimental Test of Macroscopic Realism Problem Using a Superconducting Flux Qubit

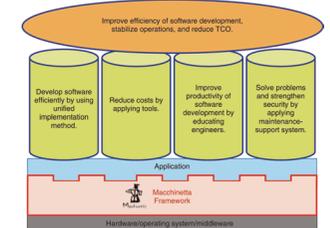
Feature Articles

Improving Productivity in Software Development Using Macchinetta Framework

Improving Productivity of Software Development on the Macchinetta Framework

▼Abstract

The NTT Software Innovation Center aims to provide high quality services in a timely manner while reducing total cost of ownership. To achieve this goal, it is necessary to develop new software rapidly and stably. This article introduces technology for improving the productivity of software development on the Macchinetta framework, which uses the same open source programs as conventional software development.

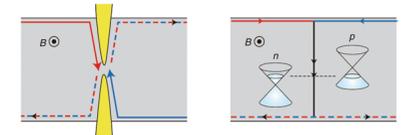


Regular Articles

Graphene p-n Junction as an Electronic Beam Splitter

▼Abstract

N-type and p-type regions in graphene can adjoin without a gap in between. This article explains how such characteristic p-n junctions can serve as beam splitters of electrons. Utilizing the long coherence length of electrons in graphene may make it possible to carry out an electron version of quantum optics.



World's Highest Density Optical Fiber for Space Division Multiplexing with Deployable Reliability

▼Abstract

Space division multiplexing (SDM) technology has been intensively investigated in order to substantially increase the network capacity of optical fiber telecommunication. Multi-core or multi-mode fiber is a promising candidate for next-generation optical fiber. In this article, we describe our optical fiber for SDM transmission that can realize 100 times larger capacity than that of standard single-mode fiber while maintaining deployable mechanical reliability.

