

Cross Domain

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Abstract. The Internet of Things (IoT) is evolving very quickly. In this IoT world, there are massive of sensors and devices. To management these sensors and devices efficiently, we need IoT platforms, each often suit to a given scenario and use different kind of communication, device control protocols. Because IoT platforms are heterogeneous, which ones usually cannot communicate to each other, the problem of interoperability these IoT platforms is one of the most important and challenging part of IoT. In this paper, we propose a cross-platform layer, which allow intergrate new IoT platforms easily, enable interoperability between platforms and also provide APIs for developers create innovative and cross-domain applications.

1 Introduction

1.1 Checking the PDF File

1.2 Additional Information Required by the Volume Editor

1.3 Ontology

2 Paper Preparation

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Here are some examples of headings: “Criteria to Disprove Context-Freeness of Collage Language”, “On Correcting the Intrusion of Tracing Non-deterministic Programs by Software”, “A User-Friendly and Extendable Data Distribution System”, “Multi-flip Networks: Parallelizing GenSAT”, “Self-determinations of Man”.

Lemmas, Propositions, and Theorems. The numbers accorded to lemmas, propositions, and theorems, etc. should appear in consecutive order, starting with Lemma 1, and not, for example, with Lemma 11.

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Fig. 1. One kernel at x_s (*dotted kernel*) or two kernels at x_i and x_j (*left and right*) lead to the same summed estimate at x_s . This shows a figure consisting of different types of lines. Elements of the figure described in the caption should be set in italics, in parentheses, as shown in this sample caption.

Please define figures (and tables) as floating objects. Please avoid using optional location parameters like “[h]” for “here”.

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Displayed equations or formulas are centered and set on a separate line (with an extra line or halflife space above and below). Displayed expressions should be numbered for reference. The numbers should be consecutive within each section or within the contribution, with numbers enclosed in parentheses and set on the right margin – which is the default if you use the *equation* environment, e.g.,

$$\psi(u) = \int_o^T \left[\frac{1}{2} (A_o^{-1}u, u) + N^*(-u) \right] dt. \quad (1)$$

Equations should be punctuated in the same way as ordinary text but with a small space before the end punctuation mark.

2.3 Footnotes

The superscript numeral used to refer to a footnote appears in the text either directly after the word to be discussed or – in relation to a phrase or a sentence – following the punctuation sign (comma, semicolon, or period). Footnotes should appear at the bottom of the normal text area, with a line of about 2 cm set immediately above them.¹

¹ The footnote numeral is set flush left and the text follows with the usual word spacing.

2.4 Program Code

Program listings or program commands in the text are normally set in typewriter font, e.g., CMTT10 or Courier.

Example of a Computer Program

```
program Inflation (Output)
{Assuming annual inflation rates of 7%, 8%, and 10%,...
 years};
const
  MaxYears = 10;
var
  Year: 0..MaxYears;
  Factor1, Factor2, Factor3: Real;
begin
  Year := 0;
  Factor1 := 1.0; Factor2 := 1.0; Factor3 := 1.0;
  WriteLn('Year 7% 8% 10%'); WriteLn;
  repeat
    Year := Year + 1;
    Factor1 := Factor1 * 1.07;
    Factor2 := Factor2 * 1.08;
    Factor3 := Factor3 * 1.10;
    WriteLn(Year:5,Factor1:7:3,Factor2:7:3,Factor3:7:3)
  until Year = MaxYears
end.
```

(Example from Jensen K., Wirth N. (1991) Pascal user manual and report. Springer, New York)

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References

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6 Checklist of Items to be Sent to Volume Editors

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- ☐ The final L^AT_EX source files
- ☐ A final PDF file
- ☐ A copyright form, signed by one author on behalf of all of the authors of the paper.
- ☐ A readme giving the name and email address of the corresponding author.