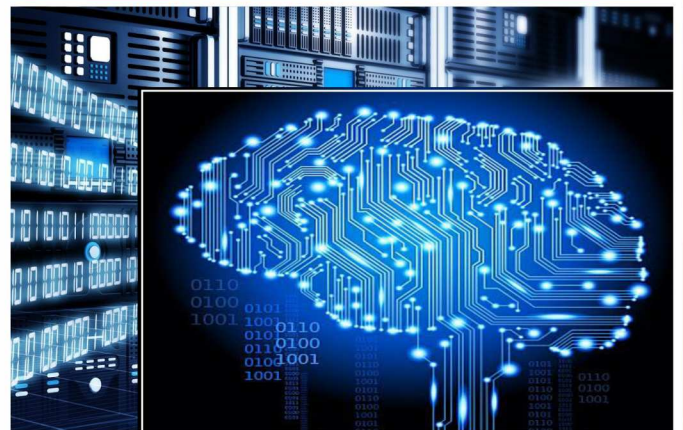
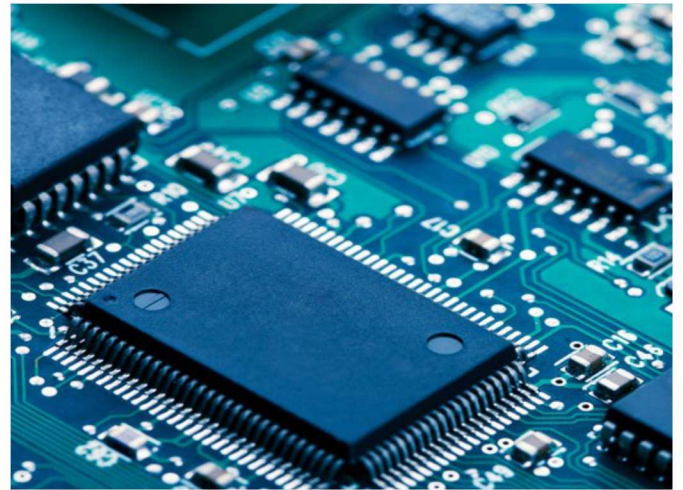
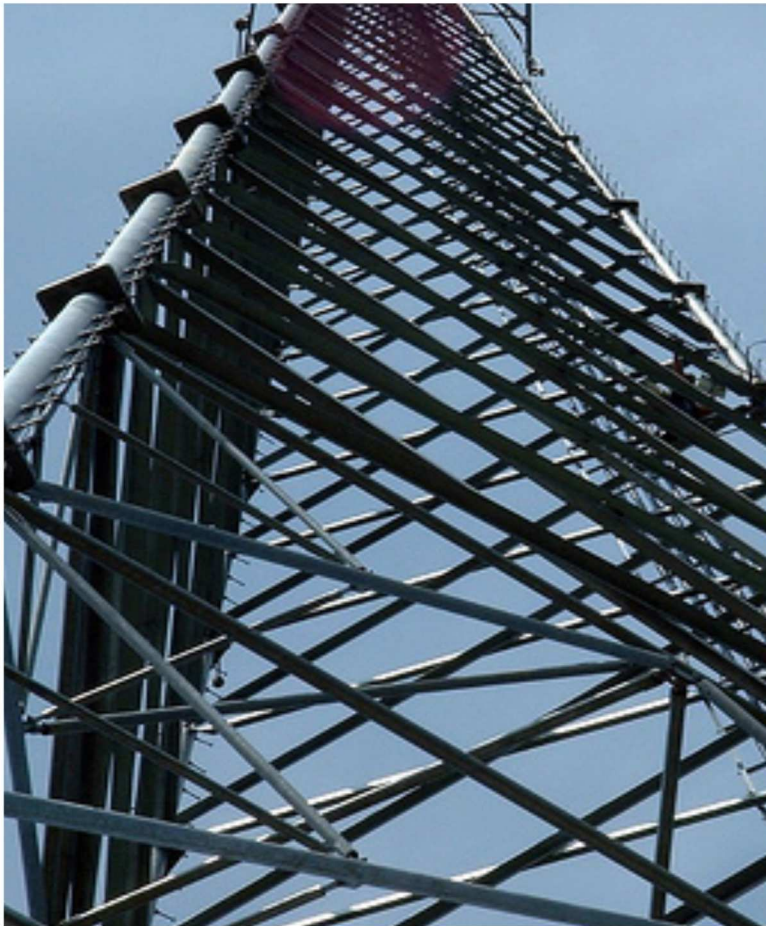


# JURNAL INFOTEL

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Volume 11, Number 04 November 2019



Lembaga Penelitian dan Pengabdian Masyarakat  
Institut Teknologi Telkom Purwokerto



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**PREFACE FROM EDITOR-IN-CHIEF**

Jurnal INFOTEL is a scientific journal published by Lembaga Penelitian dan Pengabdian Masyarakat (LPPM) of Institut Teknologi Telkom Purwokerto, Indonesia. It covers the field of Informatics, Telecommunications, and Electronics. The aims of Jurnal INFOTEL are to disseminate research results and to improve the productivity of scientific publications. Starting in Volume 10 Number 1, 2018, Jurnal INFOTEL uses English as the primary language.

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In this issue, ten papers are published by 13 authors from 4 institutions in Indonesia. Two papers related to informatics topic. Three papers are about Electronics topics.

We would like to thank our Associate Editors, Editorial Boards, Reviewers, and Authors. We hope that Jurnal INFOTEL can contribute to the progress of scientific publications in Indonesia and in the world.

Purwokerto, November 2019

Editor-in-Chief

**JURNAL INFOTEL**  
**Informatics, Telecommunication, and Electronics**  
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