Foreword

I am very thankful to everyone who is supporting our group, in the Department of Electronics and Electrical Engineering, in Keio University, Japan.

Since I started my lab five years ago, the number of members showed continuous growth and now we had five PhD students, nine master students, and five bachelors, in year 2015.

It was a fruitful year, in terms of constructing relationship and starting collaboration with other groups and researchers. Three of the PhD students have stayed for a half year in a lab abroad, Purdue University, Harvard University, and Freiburg University. Their stay have contributed to start connection with different groups abroad. As a result of such activities, along with our continuous effort, we managed to publish nine journal papers and 22 conference proceedings including two invited talks. I am very proud of my students, being keen on research activities and being very productive.

I have selected some of our research topics, and put them together to make this report. All of the manuscripts are written by the students, i.e. bachelors, masters and PhD students, and I basically did not made any correction. Therefore, I must admit that some are not well written, mainly due to the language problem. Even though, I am confident that the scientific contents provide important information and you may find interest in our research activities. I am appreciating and glad if you will give us any feedback to our researches.

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