

Preface

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New application domains that affect everyday life are constantly emerging. Neural networks and deep learning give the best solutions to many problems in these domains including image recognition, speech recognition, and natural language processing. Deep Learning is a new area of Machine Learning research, which has been introduced with the objective of moving Machine Learning closer to one of its original goals: Artificial Intelligence. It has not simply improved the performance, but actually made a breakthrough in some applications, which made the applications commercially available as in image search and speech recognition, currently provided in Google, Microsoft and Apple products.

Journal of Platform Technology (JPT) aims to promote interdisciplinary research in platform technologies and other applied fields in mathematics, engineering and sciences to investigate specific methodologies and develop technologies that will contribute to the development of the future infrastructure.

We are honored to feature four review and survey papers for this third issue in second volume of JPT.

This issue starts with an article that is titled “Friendly Introduction to Deep Learning” by Heeyoul Choi. The article presents the survey of deep learning that is a new area of Machine Learning research. This paper describes one of main ICT trends that deep learning is going to make more innovations, while deep learning will provide better tools to neuroscience and big data analysis to better understand new findings or to manage big data efficiently.

The second paper is titled “Emergence of Internet of Things in Current Technological Era: Multifaceted Analysis and Future Considerations” by Muhammad Tausif, JavedFerzund and Sohail Jabbar. This paper presents that the emergence of the technologies in future will come together to facilitate the IoT quicker than generally people be expecting. Just as the Internet experience occurred not so precedent and caught similar to a wildfire.

The third paper is titled “Adaptive Learning Networks in Evolutionary Framework” by Dong Won Kim. This paper presents a new design methodology of SOPNN, which uses an evolutionary algorithm (EA) to alleviate the above-mentioned drawbacks of the SOPNN. Evolutionary Algorithm (EA) has been widely used as a parallel global search method for optimization problems. The EA is used to determine the number of input variables for each node, which are optimally chosen among many input variables, and to determine the appropriate type of polynomials in each PD.

The last paper is titled “The Study on Microwave-Drilling Technology for Solid State Materials” by Chuluunbandi Naimannaran and Enkhtugs Badarch. This paper shows that the microwave-drilling

method for solid state materials is effortless and essential drilling technology process that allows easy control and manages exploitation with high speeded fast penetration in increase of temperature level.

We believe that these papers have good quality and the relevance that we expect for developing JPT. Finally, we would like to thank all authors, reviewers, and members of the editorial board of JPT.

Authors are welcome to submit papers relevant to the scope of the JPT (Journal of Platform Technology) at any time. The JPT submissions and reviews are conducted via journal submission system which is available at <http://jpt.ictps.org/>. We also welcome proposals for Special Issues, which should be submitted to the EiC (Editor-in-Chief; Prof. Seungmin Rho). The journal's website is <http://jpt.ictps.org/> and online articles are available at the website in PDF format.