Editorial

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Editorial

Machines and Robots will be the integral parts of the sustainable society in the near future

Common sense prevails, at least for now. The Americans have resoundingly rejected the woke liberalism this November with the landslide victory of the Republicans taking the popular votes, a clean sweep, the White House, Congress and Senate, altogether. Most importantly, the people have defeated the untrustworthy and lying mainstream media (MSM), that have been committing ethical crimes (deceit, corruption, treachery and manipulation). Many celebrities and entertainers have aligned with the MSM and career politicians in promoting toxic agendas. The people have clearly rejected them and reminded their actual roles, which, obviously, is to entertain, not to lecture, people. The victory of Trumpism provides people with hope for prosperity, affordability, security, morality and peace. It is the defeat of NGOs; the doom of the mostly irrelevant organization called UN. Most importantly, it is the victory for the common sense.

One might argue that Trumpism or liberalism or, even politics as a whole, is nothing to do with *EVERGREEN*. Yes, it is everything to do with *EVERGREEN*. Because *EVERGREEN* is concerned with the sustainable society, which is all about people and environment. Political leadership and events set and promote the direction of scientific and engineering activities. Thus, the occupier of the White House often set the weather for the global research direction, educational activities and fundings. Scientists have been enjoying the most prominent role since the dawn of the environmental issues. Their influence peaks during the Covid pandemic. It has been common sights on live TVs where scientists with a stick point out to the charts alongside the prime ministers or presidents. However, it is crucial not to misuse these successes. Because DOGE is coming. The department of government efficiency, DOGE, has been digging criminally wasteful spending on ridiculous activities. Those activities have often been titled as “research”, “study” or “investigation”, the daily bread of most scientists. DOGE might become a cultural trend, like the Trump Dance. That’s how Trumpism or liberalism or, even politics as a whole, becomes relevant to *Evergreen*. And it is good to be productive and efficient.

The world has witnessed a game-changing achievement about the same time as the US election. It is the capturing of the booster rocket using two chopsticks: a marvelous engineering feast in the human history. That’s the combined result of clear thinking and simple engineering. The cost of space flight has dropped from $25,000 per kg to less than $1,500 per kg[1)]. That’s the outcome of productivity and efficiency. This remarkable achievement has opened up several possibilities and opportunities. Space travel will become the reality. However, there are several challenges remained to be solved. Each and everyone of these challenges will be important research activities. Obviously, there is no room for woke science here. And *EVERGREEN* is eagerly looking forward to real science and engineering.

We can’t stress the importance of clear thinking and simple engineering enough. One example is the development of Tesla Bot. The capabilities of Optimus are astounding, practical, realistic and, crucially, useful. Such an impressive robot has been built mostly using three types of linear actuators[2)], the knowledge level of most second-year mechanical engineering students. Robotics, control engineering and AI are crucial for the society, especially, the aging ones. The

society in the developed countries has been facing with deadly population decline. One obvious remedy most countries resorted to is the mass immigration. And the outcome is Trumpism and the victory of the conservatives. Another one is regaining the sustainable birth rate, which is complicated. Both so-called low-hanging fruits solutions are associated with several social, cultural and economic problems. That's where the personal robots come in. The society where the robots and living things (human, animals and trees) inhibit together is not in the Sci-fi anymore. And, *EVERGREEN* is going to embrace the scientific and engineering developments on the "sustainable society with the machines". We hope to publish papers on robotics, AI, controls, economics, social issues, sustainability on this subject and DOGE-related subjects for productivity and efficiency.

We are pleased to publish *EVERGREEN*, Vol. 11, Issue 04. In this publication, we have 39 regular papers and 39 papers from two special issues (QiR2023 and ICSEEA 2024). All papers closely align with the subjects of *EVERGREEN*, i.e., the sustainable society (Social Science, Material Science and AI/ML Control). The subjects cover in the edition are: Novel Carbon Resource Sciences, Green Asia Strategy, Environmental Science, Social Science, Surface Science, Material Science, Economics, Artificial Intelligence and Machine Learning and Engineering (miscellaneous). We hope that these papers will be beneficial to our readers.

There has been a structural change in *EVERGREEN* lately. Our Editor-in-Chief, Prof. Jun Tanimoto, has handed the baton to Prof. Aya Hagishima. Under the leadership of Prof. Tanimoto, *EVERGREEN* has achieved tremendous milestones in terms of quality publication and widening readership. *EVERGREEN* would like to record our sincere gratitude to Prof. Tanimoto. We believe EVERGREEN is in excellent hands, since Prof. Hagishima is renowned for her vision. Moreover, Prof. Tanimoto is still helping *EVERGREEN* as an Advisory Editor-in-Chief. *EVERGREEN* has been paying special attention to citations and quality of the published papers. Such activities require attention to every detail. Thus, our editorial office, especially our Secretariat, Ms. Inoue has become extremely busy. And we also receive helping hands from the Green Asia (GA) office. *EVERGREEN* would like to express our appreciation for the editorial team. We are very grateful to our expert reviewers and our authors for their contributions. The future is bright in the era of common sense. That includes EVERGREEN, too. We wish you Merry Christmas (of course, Not Happy Holidays) and Happy New Year, 2025.

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