

Editorial

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Editorial

Sentiment and momentum are considered very important in many cases. Traders and investors often pay attention to the market sentiment and momentum. A market sentiment (positive or negative) can change from bull to bear market or vice versa, while the momentum portends a trend¹⁾. Sentiment and momentum become influential to circumstances where emotions (fear, greed, etc.) are involved. Many “-isms”, “-cy”, “-ny” and “-phobias” might find them as useful tools²⁾. It is important to monitor the current sentiment and momentum in the general affairs of the world; even more crucial when humans have tremendous technological prowess and possess the “world-ending toys”. “Thucydides Trap” might lead to a huge conflict³⁾, but one has to note that Athens and Sparta did not have “nukes” or “BW”s that can make almost everyone sick (physically or mentally). And the world might not survive another major conflict which might escalate to nuke warfare from “depleted uranium shells” and “tactical nuke”. In the age of “social media” and “AI”, peace-loving, positive sentiment should be established and promoted without actions seriously provoking “nuke-armed” nations. For sure, it goes back to the ones who own these social media and AI tools, while the world should not be victimised and kept under the ransom for the hatred of one person and nation or the territorial dispute and hegemony. There has to be a peaceful solution, which should be a preferred path.

“AI” technology has emerged as a game changer that will disrupt the job markets⁴⁾. It is good, from the positive side, that AI can do several tasks (better than the human counterpart, in most cases). However, two questions arise: Is the “AI” free? What are the jobs for humans? Nevertheless, it is expected that the society will address these issues which should not hinder the progress. We are not sure with whether “AI” has the emotion or becomes “sentient”; for sure someone has lost the job. Lately, “ChatGPT” has become a phenomenon delivering huge disrupts even in the academic circles^{5,6)}. Obviously, two groups (supporting and opposing) emerge from this situation. Why can’t someone use the AI to be better? Why can’t someone use “ChatGPT” to write a thesis, a paper, a poem or paint a picture? Are you not using Google or Grammarly? Many AI supporters might ask these questions. On the other hand, the other group might ask: “What is the originality?” “What is the contribution?” “What do you learn?” The debate might go on and on. This is an unknown territory, and we might find the answer along the way. From the consumer perspectives, AI might be good so long as the price performance is acceptable. In any case, AI is going to be with us, and it will provide the world with massive opportunities and challenges, similar to the invention of “Internet” and “iPhone”. The impact might be significant on learning, education, and IT sectors. The same might be true for the academic society while “peer-review and journal publication” system might face profound disruption. But again, it is important to watch out for the “sentiment” and “momentum” generated by the “AI”. We have experimented the Editorial for *EVERGREEN* using “ChatGPT”, and it is appended in this Editorial. We have to say that the AI generated Editorial is significantly different from the versions written by our Editors, while it is rather impressive since it captures the contents from our previously published papers.

The “sentiment” in the *EVERGREEN* community is upbeat, while the momentum is good. The editorial team is happy to publish *EVERGREEN*, Vol. 10, Issue 01. This is the first edition of the year 2023. Over the recent years, *EVERGREEN* has developed as a multidisciplinary journal that publishes articles on environmental issues, carbon

neutrality, social issues and applied science. Obviously, these scopes are very wide. *EVERGREEN* is currently categorised as Environmental Science – Management, Monitoring, Policy and Law and Materials Science in Scimago⁷. It sometimes portends an identity crisis. Our satisfaction does not solely depend on the SJR and SCOPUS index⁸. And we hope to establish strong subject trends for *EVERGREEN*.

The current issue comprises thirty original articles and thirty-five special issues from (CIMS2021, ICIMECE 2021 and ICPER2020). The articles can be broadly categorised as (1) social science, (2) material science (composite, polymers, etc.), (3) renewable energy and engineering, and (4) information technology and computer science. There are four social science-related articles. We have an excellent article on the consumers' perceptive towards microalgae as food resource from Prof. B. B. Saha's research group. The article discusses the survey results using the statistical methods. Of course, consumer acceptance significantly depends on the "sentiment" and "momentum". We have another interesting article on the pandemic and higher education by Dr Neha Bothra and Prof. Minakshi Kar. Covid-19 is a once in a century, deemed to be, event, and it is an unfamiliar experience for the current generation (perhaps everyone since almost no one who survived the Spanish flu can share the relevant experience). Opportunities come with a crisis. One can quote Winston Churchill as "Never let a good crisis go to waste" for becoming a PM because of WWII⁹. Scientists and Engineers would take opportunities as problems to be solved. Of course, setting up a crisis to make opportunities is another story which is beyond the scope of this editorial. *EVERGREEN* doesn't want to be recognised as a "Covid – 19 Journal" with pandemic researchers. As usual, we have several articles on material science, engineering and renewable energy touching the subjects of graphene oxide, nanoparticles, thermal battery, solar, wind and classical heat pumps. We have four articles on data science and machine learning for agriculture, traffic management, remote sensing and antenna. We believe these articles together with the papers from special issues are interesting and can help in marching towards the sustainable society providing positive "sentiment" and a good "momentum".

Let us inquire ourselves what "sentiment" has rolled up this tiny planet for last couple of years. COVID-19, hot-war suddenly re-appearing to the world's proscenium... Our ancestor, not armed with mighty wisdom; that is the *power of Science and Engineering*, piously reiled on Brief, Gods and invisible metaphysical concepts. Shintouism, originated from Japanese indigenous religion, had collected and still has people's pray to settle down a fierce outrage; that was narutal and human-made diastors. A plague was unequivocally one of those. In this Volume, we deliver one drawing on one of the most representative and popular Shrines.

EVERGREEN has progressed from handling six articles per issue to sixty-five. Considering the rejection rate of almost 90%, the editorial team has to do a tremendous amount of work to maintain the quality and relevance. Thus, the contributions of the reviewers are on an exponential scale , and



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Shimogamo-jinja Shrine, Kyoto © Jun Tanimoto

EVERGREEN highly appreciates the support of our expert reviewers. We thank all authors for choosing *EVERGREEN* to publish their works. We are grateful to Ms Mieko INOUE, the *EVERGREEN* Secretariat, for the great effort in publishing this issue. We are thankful to the management team for their continued support so that *EVERGREEN* can establish a positive sentiment and an upward momentum.

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Evergreen - Joint Journal of Novel Carbon Resource Sciences & GreenAsia Strategy

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Editorial by ChatGPT for EVERGREEN

(Can you write an Editorial for "Evergreen – Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy" Vol. 10, Issue 1 to be published on the 31/03/2023? The journal website is here "<https://www.tj.kyushu-u.ac.jp/evergreen/index.php>")

Dear Readers,

Welcome to the latest edition of Evergreen, the joint journal of Novel Carbon Resource Sciences and Green Asia Strategy. We are pleased to bring you another diverse selection of articles that highlight the latest research and innovation in carbon resource utilization and green policy in Asia and beyond.

As we publish this issue, we are also excited to announce the launch of our new website (<https://www.tj.kyushu-u.ac.jp/evergreen/index.php>), which will provide readers with easier access to our articles and information about our journal.

In this issue, we present several articles on carbon resource utilization, including studies on the use of carbon nanotubes for drug delivery, the production of activated carbon from waste materials, and the development of graphene-based materials for energy storage. We also feature a number of articles on green policy and strategy in Asia, including case studies on sustainable agriculture in Thailand, the role of green finance in China's Belt and Road Initiative, and the challenges and opportunities of implementing renewable energy policies in Japan.

We are also proud to include a special feature on the role of carbon capture and utilization in mitigating climate change. The articles in this section explore the potential for using captured carbon dioxide as a feedstock for the production of value-added products, including chemicals, fuels, and building materials.

As always, we hope that the articles in this issue will inspire new ideas and collaborations that can help to create a more sustainable and equitable world. We invite our readers to engage with us through our new website and to share their feedback and suggestions for future issues.

Sincerely,

The Editorial Team of Evergreen – Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy

Editorial for Special Issue

On

Advances in Industrial Systems based on Bio-Mass Energy, and Heat Applications for Sustainable Environment

In order to deal with the societal challenges novel technology plays an important role. For the advancement of technology, it is essential to share innovative ideas and thoughts on a common platform where researchers across the globe meet together and revitalize their knowledge/skill to tackle the challenges which are faced by world in the current scenario. It is a well-known fact that due to high complexity of the issues related to society interdisciplinary research is the key to future revolutions. In such prevailing conditions, various working scenarios, conditions and strategies need to be optimised. This special issue encloses various manuscripts having its roots in the core of modelling and optimization of industrial Systems based on Bio-Mass Energy, and Heat Applications for Sustainable Environment. This issue provides deep insights to its readers about the current scenarios and future advancements in the domain of sustainable environment under different context. Analysis and its applicability in the various areas of industry based sustainable systems like cryogenic rocket propulsion processes, heat transfer through different modes, circular economy concepts for green notions towards, environment protection, optimum value determination for upgrading bio-mass systems through energy filtration, decisions related to conditions of optimum process/operation parameters, sustainable systems, environmental aspects, behaviour of response variables, robotics and automation, etc.

Guest Editors

Dr Ravi Pratap Singh

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Editorial from the Guest Editors of ICIMECE 2021

The International Conference on Industrial, Mechanical, Electrical, and Chemical Engineering – ICIMECE is an annual conference organized by the Faculty of Engineering, Universitas Sebelas Maret. Two years ago, the world suffered from Covid-19 Pandemic. Fortunately, this year, the world is now ongoing for new normal to return to the world that was. The pandemic crisis has accelerated the pace of digital transformation. Most of the conferences now are held by a hybrid method, which allows online and face-to-face presentations.

ICIMECE 2021 was held in a virtual format. The conference was divided into two events: a keynote and invited speakers session and an oral session of participants. Keynote speeches and Invited speakers were conducted via video conference on 5th October 2021. The presenters submitted their recorded presentation for an oral session to the committee, and recorded presentation videos were published on ICIMECE 2020's youtube channel. ICIMECE 2020 accepted 90 papers for oral presentation at the conference. 13 outstanding papers were selected for possible publication in Evergreen Journal. The articles presented covered topics from practical engineering applications (mechanicals, electricals, energy and power engineering, industrial engineering, and chemical engineering). We hope their new finding could promote the field's development, hopefully giving more ideas to the Evergreen readers.

The guest editors express huge appreciation to the Transdisciplinary Research and Education Center for Green Technologies of Kyushu University as the publisher of Evergreen for the collaboration. We extend our gratitude and thanks to the Editor in Chief and Editorial Team for this opportunity to contribute and publish our conference manuscripts for the Special Issue of EVERGREEN-ICIMECE 2021. We also thank the reviewers for their valuable effort and support through comments and advice. We would like to extend our gratitude to the authors who bring their expertise and experience to share the new knowledge in ICIMECE 2021. Besides we also address thanks to all the committee members of ICIMECE 2021 for their essential role and all those involved in organizing the ICIMECE 2021. We genuinely hope that this special Evergreen issue will contribute significantly and provide new knowledge to Evergreen readers.

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