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on Research Innovations**
(*i*CRI-2023)

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Editors

▪ R. C. Singh ▪ Rohit Khokher ▪ Rajendra Kumar

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on

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Philippines

Editors

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The Society for Research Development (SRD)

The Society for Research Development (SRD) initiated its inaugural event in Bangkok, Thailand, from 29th to 30th July 2016. This event, known as the International Conference on Science, Technology, Humanities, and Business Management (ICSTHBM-16), marked the Society's formation. The conference proceedings were subsequently published in collaboration with McGraw Hill Education, India. Building on the success of the first conference, SRD organized its second international gathering, titled the International Conference on Recent Developments in Science, Technology, Humanities, and Management (ICRDSTHM-17), in Kuala Lumpur, Malaysia, on 28th and 29th April 2017. Continuing the momentum, the Society arranged its third international conference in Bali, Indonesia, on 4th and 5th August 2018. This conference focused on the theme of International Conference on Recent Trends in Science, Technology, Management, and Social Development (ICRTSTMSD-18). SRD proceeded to hold its fourth international conference in Phuket, Thailand, on 26th and 27th July 2019. The conference centered around the topic of the 4th International Conference on Management, Engineering, Science, Social Science, and Humanities (*iCon-MESSSH'19*). In response to the challenges posed by the global circumstances, the fifth international conference, *iCon-MESSSH'20*, took place online on 14th and 15th August 2020. It continued to explore the realms of management, engineering, science, social science, and humanities. Adapting to the evolving landscape, the sixth edition of the International Conference on Management, Engineering, Science, Social Science, and Humanities (*iCon-MESSSH'21*) was also conducted online. This conference, held on 9th and 10th November 2021, was organized in collaboration with the 9th International Conference on Science and Mathematics Education (CoSMEd-21 by SEAMEO, RECSAM, Malaysia). The society has organized the 7th International Conference on Research Innovations (*iCRI'22*) at SEAMEO, RECSAM, Penang, Malaysia in association with San Pablo College, Philippines on 11-12 November 2022. The papers presented in this conference have been published in the American Institute of Physics (AIP), and Zibeline International Publishing.

Building upon the tremendous success and overwhelming participation from previous events, the Society is proud to announce the upcoming 8th International Conference on Research Innovations (*iCRI'23*). This prestigious conference will take place at Astoria Plaza, located in Pasig, Manila, Philippines. The Society joins forces with esteemed partners, including San Pablo College, Philippines, and Universitas Muhammadiyah Purwokerto, Indonesia, to bring forth this remarkable event. Scheduled to occur on 23rd and 24th June 2023, *iCRI'23* promises to be a platform for ground-breaking research and innovative ideas in a diverse range of fields.

The objective of the Society is Scientific, Technical, Managerial, Literary, and Educational in nature. The Society strives to advance the theory, practice, and application of Science, Technology, Social Sciences, Humanities, Education and Management and maintains a high professional standing among its members. The basic purpose of the Society is to bring together academicians and experts from different parts of the country and abroad to exchange the knowledge and ideas at a common platform by organizing National and International Conferences, Seminars and Workshops that unite the Science, Social Sciences, Language, Emerging Technologies, Management, Financial Engineering, Humanities, Literary, Cultural, Education and topics which are not mentioned here for the empowerment of research and development. The Society promotes the original, innovative ideas for betterment of the world and seeks to propagate the results of the interdisciplinary field across research communities and to the general public.

To know more about the activities and forthcoming events of the Society, the readers are advised to visit the official home page of the Society (<https://socrd.org>).

Prof. R. C. Singh

PREFACE

We take great pleasure in presenting the proceedings of the highly anticipated 8th International Conference on Research Innovations (*iCRI'23*), which took place in Manila, Philippines. In collaboration with San Pablo College, Philippines, this remarkable event was held on 23rd and 24th June 2023. This volume of proceedings offers readers a valuable opportunity to explore a curated collection of refereed abstracts and invited talks that were delivered during *iCRI'23*, providing insights into the cutting-edge research presented at the conference.

After a rigorous two-tier peer review process, a total of 94 abstracts have been chosen for inclusion in this proceeding out of the 193 submissions received. The overwhelming response to the conference was evident by the participation of researchers from various countries such as the Philippines, Nigeria, Uzbekistan, India, Indonesia, Malaysia, Taiwan, China, Thailand, Japan, and more, who submitted and presented their papers. The keynote address during the inaugural session of the conference was delivered by Dr. Mohd Rozi Ismail, from the Institute Teacher Education Kota Bharu Campus, Ministry of Education, Malaysia. His enlightening talk on the topic "*Intellegency – Aspiration and Inspiration Towards Future Education*" resonated with the subject matter of the selected papers. To recognize excellence in research, best paper awards were presented in each session, carefully assessed by the respective Co-Chairs and session chairs. The selected papers that were presented during the conference will have the opportunity to be published in edited books by prestigious publishers such as CRC Press (Scopus) and Zibeline International Publishing, Malaysia. This publication will provide a valuable platform for researchers to share their findings and contribute to the academic community.

iCRI'23 offered a unique and invaluable platform for educators from all around the globe to come together and engage in meaningful discussions on enhancing learner experiences. The conference was a resounding success, fostering a deeper understanding of advancements in science, technology, management, and humanities. The deliberations facilitated knowledge exchange, enabling individuals outside specific domains to gain insights into emerging areas of research. A notable aspect of *iCRI'23* was the inclusion of several young scientists, including postdoctoral researchers and students, who brought fresh perspectives to their respective fields. Their contributions added novelty and innovation to the conference discussions. The Society for Research Development (SRD) remains committed to forging partnerships with different organizations and universities to foster academic collaborations. In 2022, SRD signed a Memorandum of Agreement with San Pablo Colleges, Philippines, solidifying a joint effort to organize events for the next five years. Consequently, the 2023 conference was held in collaboration with San Pablo Colleges, Philippines, with the active participation of Dr. Venus Ibarra from the institution, serving as Co-Chair. Notably, the conference drew the attendance of more than 70 participants from the Philippines, further enriching the diverse and inclusive nature of the event.

The SRD society expresses its heartfelt gratitude to all the participants for their valuable contributions to the Conference and this proceeding. We sincerely appreciate the dedication and expertise of the reviewers, whose diligent efforts have ensured the maintenance of a high scientific standard throughout this publication. We extend our thanks to the members of the Technical Committee for their unwavering support and cooperation in organizing this conference. The resounding success of this conference instills confidence as we move forward with planning for future events. We would also like to extend our sincere appreciation to all the Co-Chairs and invited speakers for their invaluable support and tireless efforts in making this conference a remarkable achievement. Their contributions have played a pivotal role in its success, and we are grateful for their dedication.

Editors

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