



Abstracts of **1st International Conference on Machine Intelligence and System Sciences**

Editors

- Indranath Chatterjee
- Partha Pratim Deb

MISS-2021

1-2 November
2021

Organized by

Techno College of Engineering,
Agartala, Tripura, India
&
Tongmyong University, Busan,
South Korea





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Indranath Chatterjee
Partha Pratim Deb
(Editors)

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1st-2nd November 2021

Editors

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- Techno College of Engineering Agartala, Maheshkhala, Tripura, affiliated to Tripura University, Approved by AICTE, Govt. of India
- Tongmyong University, Busan, South Korea

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MISS-2021

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2021

About the Conference

The proposed 1st International Conference on Machine Intelligence and System Sciences (MISS) 2021 will be held at Techno College of Engineering Agartala, Tripura, India to enable researchers build connections between different digital technologies based on Machine Intelligence, Image Processing and Internet of Things (IoT).

Through sharing and networking, MISS-2021 will provide an opportunity for researchers, practitioners and educators to exchange research evidence, practical experiences and innovative ideas on issues related to the Conference theme.

Prospective authors are encouraged to contribute to and help shape the conference through submission of their research papers. Also, high quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental of theoretical work in all areas of Machine Intelligence, System sciences, Image Processing, Biomedical engineering, and Internet of Things (IoT) are cordially invited for presentation at the conference. The conference solicits contributions of papers that address themes and topics of the conference, including figures, tables and references of novel research materials.

Message from Principal



Warm and Happy greeting to all. I am immensely happy that CSE department of our college is organizing an international conference named 1st International Conference on Machine Intelligence and System Sciences(MISS 2021) on emerging technologies in Computer Science and Engineering On 1st and 2nd November, 2021 and is going present a collection of various technical abstracts in the proceedings.

Under the able guidance of our management TCEA continues to march on the way of success with confidence. The sharp, clear-sighted vision and precise decision-making powers of our management has benefited our college to say competitive.

The dedicated HOD's and staff members and disciplined students of TCEA are the added features of our college. The role students in building nation cannot be overlooked and students at TCEA are trained in all aspects to become a successful engineers and good citizens. On this occasion I would like the students all very best.

I also congratulate HOD, staff members, Organizing Committee members, Technical Program committee members, students of CSE departments, Participants from our colleges and other colleges for their efforts in organizing and participating in this conference and wish the conference all the success.

Dr. Dibakar Deb
Principal, TCEA
Agartala, Tripura(w)

Message from Conveners

We welcome all the participants from different corners of the world at MISS 2021. The main intention of organizing this conference is to share and heighten the knowledge of every person in this computer world. We have given a good opportunity for those who have a thirst in knowing the present technological developments and also share their ideas. Furthermore, this conference will also facilitate the participants to expose and share various novel ideas. The conference aims to bridge the researchers working in academia and other professionals through research presentations and keynote addresses in current technological trends. It reflects the growing importance of intelligent Computing systems as a field of research and practice. You will get ample opportunities to widen your knowledge and network. Such a large conference event is the culmination of many individuals. I thank the conference committee for extending their valuable time in organizing the program and all the authors, reviewers, and other contributors for their sparkling efforts and their belief in the excellence of MISS 2021.

Prof. (Dr.) Indranath Chatterjee

Prof. Partha Pratim Deb

Conveners
MISS-2021

About the Editors



Prof. (Dr.) Indranath Chatterjee is working as a Professor in the Department of Computer Engineering at Tongmyong University, Busan, South Korea. He received his Ph. D. in Computational Neuroscience from the Department of Computer Science, University of Delhi, Delhi, India. His research areas include Computational Neuroscience, Schizophrenia, Medical Imaging, fMRI, and Machine learning. He has authored and edited 7 books on Computer Science and Neuroscience published by renowned international publishers. To date, he has published more than 45 research papers in international journals and conferences.

He is a recipient of various global awards on neuroscience. He is currently serving as a Chief Section Editor of a few renowned international journals and serving as an Editorial board of various international journals of high repute. He is active Advocate of *Open-Science* and serving as a member of the Advisory Board of several international Open-Science organizations worldwide. He is presently working on several projects of government & non-government organizations as Principal Investigator, related to medical imaging and machine learning for a broader societal impact, in collaboration with several universities globally. He is an active professional member of the Association of Computing Machinery (ACM, USA), Organization of Human Brain Mapping (OHBM, USA), Federations of European Neuroscience Society (FENS, Belgium), Association for Clinical Neurology and Mental Health (ACNM, India), and International Neuroinformatics Coordinating Facility (INCF, Sweden).



Prof. Partha Pratim Deb is a Computer Science Engineer since 2008. He is an academic member of staff (Currently an Assistant Professor) and Head of the Department of Computer Science and Engineering Department at the Techno College of Engineering Agartala(TCEA). He has completed his M.Tech from Maulana Abul Kalam Azad University OF Technology(formerly West Bengal University of Technology), WEST BENGAL in 2013 and currently pursuing his Ph.D. from National Institute of Technology Agartala(NITA).

He has served in various administrative positions at TCEA including Head of the Department, Incharge of Student Affairs, Manager of Event Committee, member of the purchase committee.

He was associated with variuos education institues including Convolution educare, Techno International *New Town* (Formerly known as *Techno India* College of Technology) as an assistant Professor. He was also associated with two software farms including indilabs and 3isoftech. He is also a freelance software developer and project consultant of the software firm named, crafttechgroup. He is an associate member of the *Institution of Engineers (India) (IEI), Tripura State Centre*. *He has published different journals and participated in various national and international conferences.*

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Inaugural Speakers (Advisory Committee)

- Welcome Address by Dr. Dibakar Deb, Principal, TCEA, Tripura
- Inaugural Speech by Prof. Manoshi RoyChowdhury, Co-Chancellor, TIU, WB
- Speech by Mr. Meghdut RoyChowdhury, Director of Global Operations, TIU, WB
- Speech by Ms. Pauline Laravoire, Director of Sustainability, TIU, WB
- Speech by Dr. Indranath Chatterjee, International Convener (MISS 2021) Professor, Tongmyong University, South Korea
- Speech by Guest of Honour Prof. (Dr) Goutam Sengupta, Vice Chancellor, TIU, WB

Keynote Speakers

Prof. Suk-Hwan Lee, Dong-A University, South Korea: He received his Ph. D. degree in Electrical Engineering from Kyungpook National University, Korea. Currently, he works as a professor in Department of Computer Engineering at Dong-A University. Previously, he worked as an associate professor in the Department of Information Security at Tongmyong University for around 15 years. He had also worked at Electronics and Telecommunications Research Institute in Korea. He is as the editor of Korea Multimedia Society journal and is a member of IEEE, IEEK, IEICE and also is an officer of IEEE R10 Busan section. His research interests include multimedia signal processing, multimedia security, digital signal processing, bio security, and computer graphics.



Prof. Naveen Kumar, University of Delhi, India: He is working as a Professor at Department of Computer Science, University of Delhi, Delhi, India. He has received his Ph. D in Computer Science from Indian Institute of Technology (IIT), Delhi, India. His current area of research is medical image processing, schizophrenia, multi-objective optimization, process mining, and security.



Dr. Kishor Roy, Techno India University, India: He has 33+ years of experience mainly in the IT Industries of USA, Europe, Singapore and India. He is the founder of two start-ups , and has a number of publications. Couple of research scholars is working under him mainly in the field of Data Science Management from India and abroad. He is the former Principal of Techno India Agartala, as well as Techno Main Salt Lake (TMSL). Currently, he is the Director General of Techno India Group.



Mr. Santanu Bhattacharjee: He has more than 24+ years of experience in IT. He has previously worked for RS Software Ltd, PayPal (USA). Currently he is serving VISA Inc at Foster City, CA, USA as a Sr. Director. He has a BE degree in Electronics & Communication Engineering from NIT Bhopal which is also known as Maulana Azad National Institute of Technology and MS degree in Management Systems and Decision Science from George Washington University, USA. His current job responsibility includes but is not limited to design and development of observability solutions using open-source technologies for the enterprise at VISA Inc.



Dr. Bishanka Brata Bhowmik, Tripura University, India: He has done his PhD for Indian Institute of Technology Patna in 2015. Currently, he is working as an Assistant Professor in the Department of Electronics & Communication Engineering at Tripura University (A Central University), also, presently he is discharging his duties as Head (i/c) of the department. His research area is optical fiber communication & Photonics. He has worked in micro photonic devices; mainly focusing on micro ring resonators-based devices as higher order modulation format generators, optical logic gates and optical filters. Currently he is exploring the use of machine learning in optical fiber communication system. He has published several journal and conference papers and also served as a reviewer of different conferences and journals.



Acknowledgement

The Conveners of the Organizing Committee of the **1st International Conference on Machine Intelligence and System Sciences (MISS-2021)** would like to acknowledge the excellent work of our conference organizing committee members. Gratitude is also extended to our guest of honor Dr. Goutam Sengupta, all of our distinguished keynote and plenary speakers and to our Session Chairs. We would also like to acknowledge the important contributions of all of our conference participants and in particular those who made presentations for sharing with us their personal insights and aspirations. Special thanks to Prof. Goutam RoyChowdhury, Prof. Manoshi RoyChowdhury, Mr. Meghdut RoyChowdhury, and Ms. Pauline Laravorie for encouraging us and supporting our conference.

MISS thanks and presents our heartfelt appreciation to all the organizations that in one way or another supported the conference and contribute to its success. Your kind support has helped to push the research agenda forwards and come-up with resolutions that will definitely impact positive changes to our research world.



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