

RECENT ADVANCES

IN

ARTIFICIAL INTELLIGENCE, MATHEMATICAL SCIENCES AND STATISTICAL DATA SCIENCE

EDITORS

- Dr. Jainath Yadav
- Dr Kamlesh Kumar
- Prof. Vivek Kumar Jain
- Prof. Jay Prakash Singh



ARTIFICIAL
INTELLIGENCE



MATHEMATICAL
SCIENCES



STATISTICAL
DATA SCIENCE



DATA
INSIGHTS



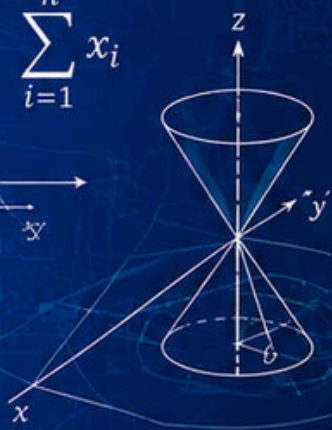
$$\int_a^b f(x) dx$$

$$\sum_{i=1}^n x_i$$



$$\frac{\partial^2 u}{\partial t^2} = c^2 \nabla^2 u$$

$$\begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix}$$



Recent Advances in Artificial Intelligence, Mathematical Sciences and Statistical Data Science



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Preface

The technological impacts of the advancements in the fields of Artificial Intelligence, Mathematics, Statistics, Computer Science and Data Science have been immense. In this scenario, International Conference on Artificial Intelligence, Mathematical Sciences and Statistical Data Science (AIMSSDS–February 4-6, 2026) was organised by the School of Mathematics, Statistics and Computer Science to provide a common platform for the presentation of high quality and latest research trends in the global area of Artificial Intelligence, Mathematics, Statistics, Computer Science and Data Science. It will continue to provide valuable information related to recent researches in the fields of Artificial Intelligence, Mathematics, Statistics, Computer Science and Data Science. It will serve to foster an effective communication among researchers, engineers, and practitioners working under a common interest area involving Artificial Intelligence, Mathematics, Statistics, Computer Science and Data Science with the aim of holistic development of mankind.

The major highlights of this book includes comprehensive research papers and articles on real life problems of research and applications in Artificial Intelligence, Mathematics, Statistics, Computer Science and Data Science and particularly the new approaches, models, algorithms in these areas to stimulate the young researchers. This book presents a cutting-edge research in the areas like Artificial Intelligence, Data Science, Probability & Statistics, Demography, Sampling Theory, Algebra and Analysis, Digital Signal Processing, Differential Equations, Mathematical Modelling, Numerical Analysis, Geometry and Topology, Deep Learning and Big Data, Machine Learning and Computer Network. All the submissions underwent strenuous peer review process which was comprised of expert reviewers. Each contribution has been carefully selected for inclusion based on the significance of the research in the field.

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Prof. Jay Prakash Singh, MSc Mathematics, NET-JRF, Ph.D in Mathematics from Banaras Hindu University, Varanasi, Uttar Pradesh. He has served at Mizoram University for 16 years as Assistant Professor and Professor in the Department of Mathematics and Computer Science. Presently working as professor at Central University of South Bihar, Gaya from 2023. He has a total of 20 years of experience of Teaching and research in Mathematics. He has organised several conferences and workshops at National and International levels. He has more than 75 reputed scopus and SCI international and National publications.

ABOUT THE BOOK

Recent Advances in Artificial Intelligence, Mathematical Sciences and Statistical Data Science

This unique volume presents the scientific achievements, significant discoveries and pioneering contributions of various academicians, industrialist and research scholars. The book is an essential source of reference and provides a comprehensive overview of the author's work in the fields of Artificial Intelligence, Mathematics, Statistics, Computer Science and Data Science.



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