



World Environment Day Celebration at Digital University Kerala



20
24

NEWSLETTER

Kerala University of Digital Sciences, Innovation and
Technology
Digital University Kerala
Thiruvananthapuram

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Developer Workshop and Meetup Report: aelf Blockchain and Kerala Blockchain Academy

On June 15th, aelf Blockchain, in collaboration with Kerala Blockchain Academy, organised a Developer Workshop and Meetup at Park Centre, Technopark. The event brought together blockchain enthusiasts, developers, and industry professionals to explore and gain hands-on experience developing smart contracts on the aelf blockchain platform. The workshop commenced with a welcome speech by Mr. Mohit Vashista, the Research Lead at aelf Blockchain. aelf Blockchain's vision, its unique features, and its potential impact on various sectors were discussed and monitored. The workshop detailed the importance of innovation in blockchain technology and how aelf's scalable and flexible architecture stands out in the competitive landscape.

Participants were introduced to the aelf Software Development Kit (SDK) and its components as Mr. Vashista explained the architecture of the aelf blockchain and how the SDK facilitates smart contract development. The Hands-On coding engaged participants in writing, testing, and deploying smart contracts. This practical session enabled participants to get a real feel of developing on the aelf platform. The workshop saw enthusiastic participation from both developers and blockchain enthusiasts. The meetup also served as a platform for networking and collaboration. Attendees had the opportunity to interact with representatives from aelf Blockchain and Kerala Blockchain Academy.



Developer Workshop and Meetup Report: aelf Blockchain and Kerala Blockchain Academy

Cisco thingQbator Cohort 7 Launch



On 13th June 2024, the Cisco thingQbator Cohort 7 launch event was organized by the Institution's Innovation Council (IIC) and the Innovation Club DUK. This year's Cohort was launched in the presence of Prof. Asharaf S, Dean Academics, DUK, Mr. Albert Dylan, Innovations Manager at Nasscom Foundation, Mr. Sarath.SM, Innovation Officer, DUK, and the students of Digital University Kerala. The event provided invaluable insights into transforming innovative ideas into successful business ventures with the support of Cisco's thingQbator program.





Cybersecurity Awareness Workshop Inspires Students at St. Mary's Higher Secondary School

As part of the Digital Transformation initiative of DUK, KSAAC organized a one-day cybersecurity awareness workshop at St. Mary's Higher Secondary School, Pattom, Thiruvananthapuram on June 22, 2024. The workshop covered various aspects of cybersecurity and highlighted the latest trends in the field. Students received guidance on navigating the internet safely and safeguarding their personal data.

Mr. Rasic A, a member of the KSAAC team, conducted the full-day session, providing valuable insights and practical tips. The workshop was successfully organized with the support of the school's NSS Volunteers, whose efforts were instrumental in making the event possible.

The interactive nature of the workshop allowed students to ask questions and seek clarifications on various cybersecurity topics. They appreciated the practical tips provided, which they could apply in their daily digital activities. The event was well-received, fostering a greater awareness among the students about the importance of cybersecurity in today's digital age. Around 150 students actively participated in the workshop, engaging enthusiastically with the session content.



WORLD ENVIRONMENT DAY



On June 5th, Digital University Kerala, Trivandrum celebrated World Environment Day with great enthusiasm. Coordinated by the School of Informatics and the Ecological Department, the day was marked by a collective effort towards environmental stewardship. Students from the MSc Ecology took the lead by organizing a tree planting initiative, symbolizing our commitment to sustainability and biodiversity conservation on campus.



In conjunction with this event, Vice-Chancellor inaugurated a beautiful Butterfly Garden Park, a testament to our dedication to creating green spaces that support local ecosystems. This initiative not only enhances the natural beauty of our campus but also provides a habitat for local butterfly species, fostering biodiversity awareness among our community. Together, these efforts reflect our university's ongoing commitment to environmental responsibility and sustainability.





International Day of Yoga

International Yoga Day is observed every year on June 21 to raise awareness about this ancient practice and to celebrate the physical and spiritual prowess that yoga has brought to the world. The objective of this year's celebration, themed "Yoga for Self and Society," focuses on aspects of self-learning and self-awareness.

We celebrated the 10th International Day of Yoga on June 21, 2024, at DUK. The event was attended by professors, students, and office staff from our university with great enthusiasm. It began with a brief introduction to yoga by Md Meraj Uddin, Assistant Professor DUK, and Mrs. Thusharakala E.S, Physical Education Consultant DUK. They welcomed the guest of honour, yoga coach Syam Mohan.

Warm-up exercises were conducted, and all participants practiced and performed sitting, standing, and laying asanas, along with pranayama.

The instructor emphasized the importance of incorporating yoga into daily life and maintaining harmony between the body and mind. The session lasted for over an hour, with active participation and engagement from all attendees. The yoga instructor provided detailed explanations of each pose and offered guidance on necessary precautions.

The celebration concluded with a vote of thanks by Md Meraj Uddin. He encouraged everyone to practice yoga regularly to stay fit and improve their health. The International Day of Yoga celebration ended with great success under the supervision of the Head of Physical Education, Mrs. Thusharakala E.S.



International Day of Yoga



Institute of Analytics

Recognized Programme

Five M.Sc. Programmes of DUK –
Recognized by the **Institute of Analytics, UK**

Five M.Sc. Programmes of DUK are now recognized by the Institute of Analytics, UK, a professional body for Analytics & Data Science professionals in UK and International. The programmes recognized are

- 01** M.Sc. in Computer Science with Specialization in Data Analytics
- 02** M.Sc. in Data Analytics and Geoinformatics
- 03** M.Sc. in Data Analytics and BioAI
- 04** M.Sc. in Data Analytics and Computational Science
- 05** MSc in Computer Science with specialization in Machine Intelligence

With this recognition, the students and faculties will have access to a larger data science ecosystem which may help them in understanding the academic, research, and industrial innovations in the data science area. DUK is planning to get accreditation and recognition from Institute of Analytics, for more programmes in the coming months, which may include MBA and M.Tech.



Film Club Event

Le Filimia

Digital University Kerala's film club hosted "Le Filimia" on May 16th, venue-Gallery Hall, featuring esteemed guests Vidhu Vincent, Director, Winner of the Kerala State Best Film Award- for 'Manhole', and DUK alumnus Akshay, a writer and co-director.

The event was graced by DUK Registrar Dr. A. Mujeeb and other faculty members, drawing a large crowd of film enthusiasts among the student body. Abin Mohammad Nizam, the film club secretary, delivered the welcome address, while Arsha skilfully anchored the proceedings. Registrar Dr. A Mujeeb presented a token of appreciation to Vidhu Vincent, who in turn honoured Akshay.



The event concluded with a musical segment, showcasing the vocal talents of Aromal, Safna S, and Aiswarya, who delivered engaging performances. The highlight of "Le Filimia" was the screening of the award-winning short film "Manhole," which shed light on the struggles of marginalised communities. Following the screening, Vidhu Vincent shared her experiences making the film and expressed her desire to inspire youth to advocate for the voiceless. She also discussed the inspiring story of Genrobotics.

Le Filmia





1st prize won by Dilshad (SoDS), Shahad (SoDS), Siddarth (SoDS), Ajas (SoCSE).



2nd prize won by Sneha Suresh (SoCSE), Md. Hashim (SoCSE)



3rd prize won by Abin Mohammed (SoCSE), M S Krishna (MBA), Swathi (SoE), Athulya Prasad (SoE), Nandana (SoE).

Le Filmia



2 Sets of Spin and Wheel Winners
Vishnu (SoCSE) and Abhiram S (SoDS)

Akshay, a successful DUK alumnus, shared insights from his journey in the film industry and reminisced about his time at the university. Umesh Ommanakuttan contributed with an engaging talk on human behaviour.

The event concluded with a prize distribution for the Tak Tak competition. The competition was to replicate movie scenes and a lot of students presented their fantastic creations and the judgement was made by Vidhu Vincent herself. The prize offered was movie ticket vouchers.



The event was then followed by a vote of thanks from MS Krishna and a photo session with the guests. The mentorship provided by Ms. Thushara and Md. Meraj Uddin proved invaluable to the triumph of the occasion. The film club's successful event was the result of outstanding teamwork among its members. The collaborative efforts of Arsha, Akshay Sasi, Sneha Suresh, Abin Mohammed, Rahulraj, Sudhi S, Md. Hashim, Sohan, Vedaprasad, Albin, and M S Krishna, Sai Shankar, Vishal were instrumental in organising this well-executed occasion.



Toastmasters Demo Meeting at Digital University Kerala

The Digital University Kerala (DUK) Toastmasters Club hosted on June 29th, 2024 (3 PM to 4:30 PM) at DUK, a demo meeting to introduce students to the Toastmasters International organization and its benefits. The event highlighted the importance of communication and leadership skills in personal and professional growth.

The demo meeting showcased various elements of a typical Toastmasters club meeting, providing attendees with a comprehensive overview of the program. With the Topic "How to beat procrastination"

Participating in the Toastmasters program offers numerous benefits for students. Enhanced public speaking skills and confidence to speak effectively in any situation. Improved critical thinking and analytical abilities, Development of strong leadership qualities, Better listening and communication skills, and Valuable networking opportunities with professionals from various fields, It also offers a welcoming and supportive environment for personal and professional growth. The demo meeting at DUK was a resounding success, providing students with a glimpse into the dynamic and supportive environment of a Toastmasters club.



Support of Reflections Info Systems in Book Donation Drive for Bhaskar Nagar, Athiyannoor

A library and Citizen Service Centre were established in Bhaskar Nagar, Athiyannoor Panchayat, Thiruvananthapuram, during the NSS (National Service Scheme) camp held in December 2023. The library caters to the needs of students and community members of Bhaskar Nagar.



Books for the library were collected through a donation drive on the Technopark campus. The CSR team of Reflections Info Systems Pvt. Ltd., Technopark, significantly contributed to this effort by conducting a book collection drive within the company and donating books to the library.

Sneharamam-Vegetable Gardening Program

As part of the Sneharamam project by the DUK National Service Scheme (NSS) unit, a vegetable garden was set up on June 5th, World Environment Day. The initiative took place on unused land within the DUK campus to promote environmental awareness and sustainability. Hon'ble Vice Chancellor Prof. Saji Gopinath inaugurated the event. Prof. Mujeeb A, Registrar, other staff members, faculty members, and student volunteers actively planted vegetable saplings and set up the garden. By utilizing the campus space effectively, the program demonstrated the commitment of NSS volunteers in fostering a greener and more eco-friendly campus environment.





Farewell Celebration: Honouring **SEC** Senior Students

On June 19, 2024, a heartfelt farewell ceremony was held to honour the senior batch student leaders who were the pillars of the Social Engagement Centre (SEC) family. Their journey has been marked by dedication, hard work, and cherished memories. The ceremony celebrated the achievements and contributions of Jeffin Joy, Sreya K Raj, Abhijith S, Anjana P Rajesh, Nived M, Vivek B Krishna, Ayana G Nair, Rafeek R, and Reshma A S. Each senior received a memento in recognition of their time at SEC, presented by Pradeep Kumar K (Faculty Coordinator-SEC), Niyas M (Assistant-Academics, NSS Unit), and Fousiya CK (Project Associate-SEC).

Sai Shankar G Nair, SEC Core Member, meticulously coordinated the farewell program, ensuring that every moment was special and memorable for our seniors. Each senior took the stage to share their experiences, stories, and SEC's impact on their life and thought process, inspiring everyone present. Prof Pradeep Kumar praised the SEC leadership team's commitment and volunteerism and highlighted how the experience gained at SEC would help students in the future.

The session concluded with shared laughter and the creation of new memories. Participants extended their best wishes to the seniors for their future endeavours, expressing hope that they would carry the spirit of SEC wherever they go. The message was clear the seniors will always remain a cherished part of the SEC family.

SEC Senior Students



Jeffin Joy
MBA



Sreya K Raj
**M.Sc. Data Analytics and Computational
Science**



Abhijith S
**M.Sc. in Computer Science with Specialization in
Cyber Security**



Nived M
**M.Sc. Data Analytics and
Computational Science**

SEC Core Seniors Sharing their Experiences

Leading with Heart: My Journey with the Social Engagement Centre

As my tenure with the Social Engagement Centre (SEC) ends, I reflect on the enriching experiences and the invaluable lessons learned through various activities where I have demonstrated my leadership and organisational skills.

One of the highlights of my time at SEC was leading the N.S.S. camp in Athiyanoor, where I managed a team of over 30 students and staff. This experience sharpened my leadership and organisational skills and deepened my commitment to community service. The camp's success, marked by the establishment of a library and Citizen Service Centre at Bhaskar Nagar, was a testament to the power of collective effort and dedication.



Jeffin Joy

MBA (2022-2024)

NSS Secretary, SEC Core member

During this journey, I also had the incredible opportunity to engage with Marius Eugler, Chief Technology and Transformation Officer at Allianz Technology, and his team at our DUK campus on behalf of the SEC last year. Engaging in discussions on social responsibility, community initiatives, and our collective role in sustainability left a lasting impact on me. I am proud to contribute to our Green Campus Initiative by planting tree saplings, reinforcing my commitment to sustainability and environmental conservation.

Additionally, I have been involved in socially relevant activities such as cleaning the market and bus stand in Pothencode and conducting and assisting digital literacy campaigns. I also participated in health awareness campaigns, cancer detection drives conducted in various panchayats and a blood donation campaign at our university. These experiences have showcased my commitment to community service and have been incredibly rewarding, allowing me to make a tangible difference in our local communities.

My time with the SEC has been immensely positive, providing invaluable experiences. It has helped me grow personally and professionally, instilling a profound responsibility towards society and the environment. Throughout these activities, the support and guidance from the SEC team have been instrumental in my personal and professional growth. The experiences gained here have equipped me with leadership, teamwork, project management, and community engagement skills, which are invaluable as I advance in my career.

I am profoundly grateful for the opportunities and experiences provided by the SEC. Recently, I received a heartfelt farewell from the SEC, marking the end of a significant chapter in my life. The farewell from the team was a touching reminder of the strong bonds and shared commitments we have built over time.

I want to express my heartfelt gratitude to several individuals who were part of this journey. Pradeep Sir, Ms. Sreelekha, Ms. Fousiya, and the juniors' team under Sai have been incredibly supportive and instrumental in our initiatives. Each has contributed significantly to our success, and I am deeply thankful for their guidance and collaboration.

As I bid farewell to this chapter, I carry forward the lessons and memories, ready to apply them in shaping a better tomorrow.

SEC Core Seniors Sharing their Experiences

A Journey of Growth, Service, and Friendship: My Experience with the Social Engagement Centre

My time with the Social Engagement Centre (SEC) has been a remarkable journey marked by growth, learning, and impactful experiences. As I conclude my two-year tenure, I reflect on the various activities that honed my leadership and organisational skills and the invaluable lessons I learned along the way.



Sreya K Raj

MSc CSDA (2022-2024)

NSS Secretary, SEC Core member

One of the standout moments was leading the NSS Camp in Athiyanoor. Managing a team of over 30 students and staff, I saw first-hand the power of collective effort and dedication. The camp's success, highlighted by establishment a library and Citizen Service Centre at Bhaskar Nagar, was incredibly

fulfilling. Those seven days were among the happiest of my university life, filled with camaraderie and a sense of purpose. I owe much of this success to my steadfast team members - Jeffin, Abhijith, Nived, and Vivek—and the enthusiastic juniors who contributed immensely.

Joining the SEC shortly after the Women's Day celebration and becoming a core committee member was pivotal for me. This role set the foundation for my active involvement and leadership within the centre.

Discussing social responsibility, community initiatives, and sustainability left a lasting impression on me. Contributing to our Green Campus Initiative by planting tree saplings reinforced my commitment to environmental conservation. My involvement extended to various socially relevant activities, such as Beach cleaning and assisting in digital literacy campaigns. These endeavors underscored my commitment to community service, providing a sense of fulfillment through tangible contributions to our local communities.

Throughout my journey, the support and guidance from Pradeep sir, Sreelekha ma'am, Fousiya ma'am, and Niyas sir were invaluable. Their mentorship helped me navigate challenges and seize opportunities, significantly contributing to my personal and professional growth. Reflecting on my time with the SEC, I recognize how it has profoundly shaped me. It instilled a deep sense of responsibility towards society and the environment and equipped me with essential skills in leadership, teamwork, project management, and community engagement.

The heartfelt farewell from the SEC team marked the end of a significant chapter in my life. This touching send-off reminded me of the strong bonds and shared commitments we built over time.

As I move forward, I carry with me the lessons and memories from this incredible journey, ready to apply them in shaping a better tomorrow.

Farewell to Sports Instructor, Thushara Kala E.S.



The Sports Club recently organized a heartfelt farewell for our esteemed Sports Instructor, Thushara Kala E.S. The event was a moment for all as we gathered to celebrate and express our gratitude for her dedicated service and invaluable contributions to our university.

The farewell began with an inspiring speech that highlighted Thushara Kala E.S.'s journey, her achievements, and the positive impact she had on our sports community. Her words of wisdom and encouragement resonated deeply with everyone present, leaving us motivated and uplifted.

As a token of appreciation, Sports secretary Abhiram S handed over her a memento, a gesture to commemorate her invaluable service and dedication. This was followed by the ceremonial passing of the torch to the Vidya S Nair New Sports Instructor, signifying the continuation of the legacy and the spirit of sportsmanship at Digital University Kerala.



The farewell event was a perfect blend of emotions, reflections, and aspirations, marking a new chapter for both Thushara Kala and the university's sports community. The event concluded with a joyful cake-cutting session, symbolizing our best wishes for her future endeavors. It was a memorable occasion that reflected the deep respect and admiration we hold for Thushara Kala E.S. We wish her all the best in her future pursuits and will always remember her with fondness and gratitude.

Prize Distribution Ceremony for Sports Winners

The Sports Club hosted a vibrant Prize Distribution Ceremony to honor the outstanding athletes who excelled in the games held last month. Also distributed certificates for the participants of the Inter-university Football team and Chess team.

The ceremony recognized the achievements of athletes across various disciplines, with winners receiving medals, trophies, and certificates. It was a proud moment for all participants as they were applauded for their exceptional performances and perseverance.

The event was graced by the Registrar and other faculties who presented the awards and shared words of encouragement with the winners. Their presence added to the significance of the occasion, inspiring our athletes to continue striving for excellence. The Prize Distribution Ceremony not only celebrated individual achievements but also highlighted the spirit of teamwork and camaraderie that defines our sports culture. It was a fitting prelude to the farewell of Thushara Kala E.S., underscoring the strong foundation she helped build within sports community.



Prize Distribution Ceremony for Sports Winners



Publications

- Arun Raj T, Karthik K., and Joseph Suresh Paul. (2024). Unveiling metabolic patterns in dementia: Insights from high-resolution quantitative blood-oxygenation-level-dependent MRI. *Medical Physics*. 10.1002/mp.17173
- Lekshmi, V., & Joseph, J. (2024). Geometry Optimization to Enhance the Range of Detection of Fringing Field-Based Capacitive Proximity Sensors. *IEEE Sensors Letters*. 10.1109/LSENS.2024.3407787
- Aswathy, M., Parama, D., Hegde, M., DR, S., Lankalapalli, R. S., Radhakrishnan, K. V., & Kunnumakkara, A. B. (2024). Natural Prenylflavones from the Stem Bark of *Artocarpus altilis*: Promising Anticancer Agents for Oral Squamous Cell Carcinoma Targeting the Akt/mTOR/STAT-3 Signaling Pathway. *ACS omega*. <https://doi.org/10.1021/acsomega.3c08376>
- Thankaraj Ambujam, S., Balasubramaniam S. (2024). Power quality enhancement in the wind energy distribution system using HHO algorithm based UPFC. *Journal of the Chinese Institute of Engineers*, 1-21. <https://doi.org/10.1080/02533839.2024.2368459>
- Balasubramaniam S, Seifedine Kadry, Rajesh Kumar Dhanaraj, Satheesh Kumar K, Adaptive Coati Optimization enabled deep CNN based Image Captioning, *Applied Artificial Intelligence*, Taylor & Francis, 2024 (Accepted for Publication).

Patent Granted

Balasubramaniam S, Indian Patent has been granted for an Invention entitled "A Device for Online Meetings and Inbuilt Emotion-Based Attendance Report", Patent Number: 542428, Date of Grant: 20/06/2024

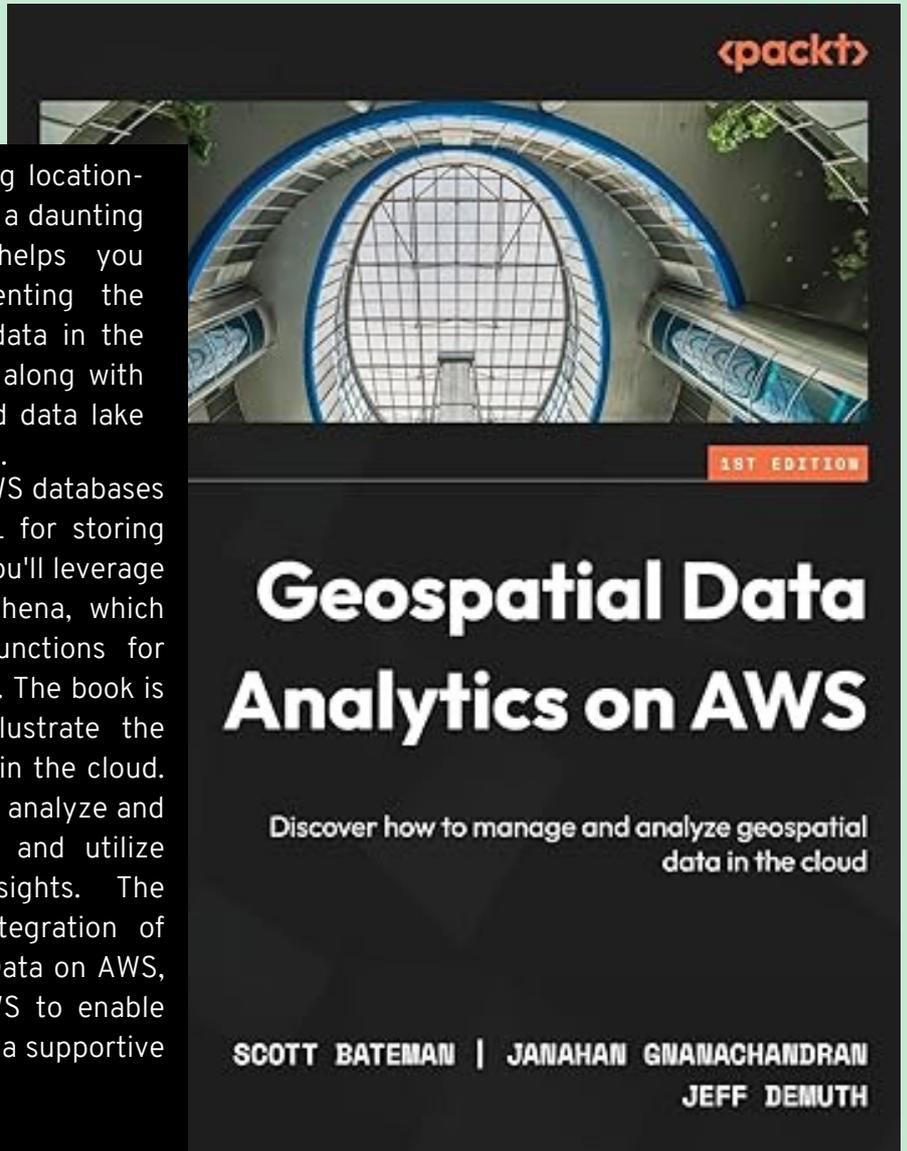
Delivered Talk

Dr. Sishu Shankar Muni, Assistant Professor at the School of Digital Sciences, delivered an online presentation at the 29th International Conference on Discrete Equations and Applications (ICDEA 2024), held in a hybrid format in Paris, France from 24th-28th June. The talk was well received by both the audience and experts in the field. Additionally, Prof. Rene Lozi, a renowned expert in dynamical systems (<https://mathworld.wolfram.com/LoziMap.html>), invited Dr. Sishu to give this talk.

New Additions to the Knowledge Centre Collection

Geospatial Data Analytics on AWS: Discover How to Manage and Analyze Geospatial Data in the Cloud by Scott Bateman

Managing geospatial data and building location-based applications in the cloud can be a daunting task. This comprehensive guide helps you overcome this challenge by presenting the concept of working with geospatial data in the cloud in an easy-to-understand way, along with teaching you how to design and build data lake architecture in AWS for geospatial data. You'll begin by exploring the use of AWS databases like Redshift and Aurora PostgreSQL for storing and analyzing geospatial data. Next, you'll leverage services such as DynamoDB and Athena, which offer powerful built-in geospatial functions for indexing and querying geospatial data. The book is filled with practical examples to illustrate the benefits of managing geospatial data in the cloud. As you advance, you'll discover how to analyze and visualize data using Python and R, and utilize QuickSight to share derived insights. The concluding chapters explore the integration of commonly used platforms like Open Data on AWS, OpenStreetMap, and ArcGIS with AWS to enable you to optimize efficiency and provide a supportive community for continuous learning.



- Discover how to optimize the cloud to store your geospatial data
- Explore management strategies for your data repository using AWS Single Sign-On and IAM
- Create effective SQL queries against your geospatial data using Athena
- Validate postal addresses using Amazon Location services
- Process structured and unstructured geospatial data efficiently using R
- Use Amazon SageMaker to enable machine learning features in your application
- Explore the free and subscription satellite imagery data available for use in your GIS

Source: Amazon

Bateman, Scott (2023) *Geospatial Data Analytics on AWS: Discover How to Manage and Analyze Geospatial Data in the Cloud*. Packt Publishing.

New Additions to the Knowledge Centre Collection

Biomedical Signal Analysis (IEEE Press Series on Biomedical Engineering)

by Rangaraj M. Rangayyan

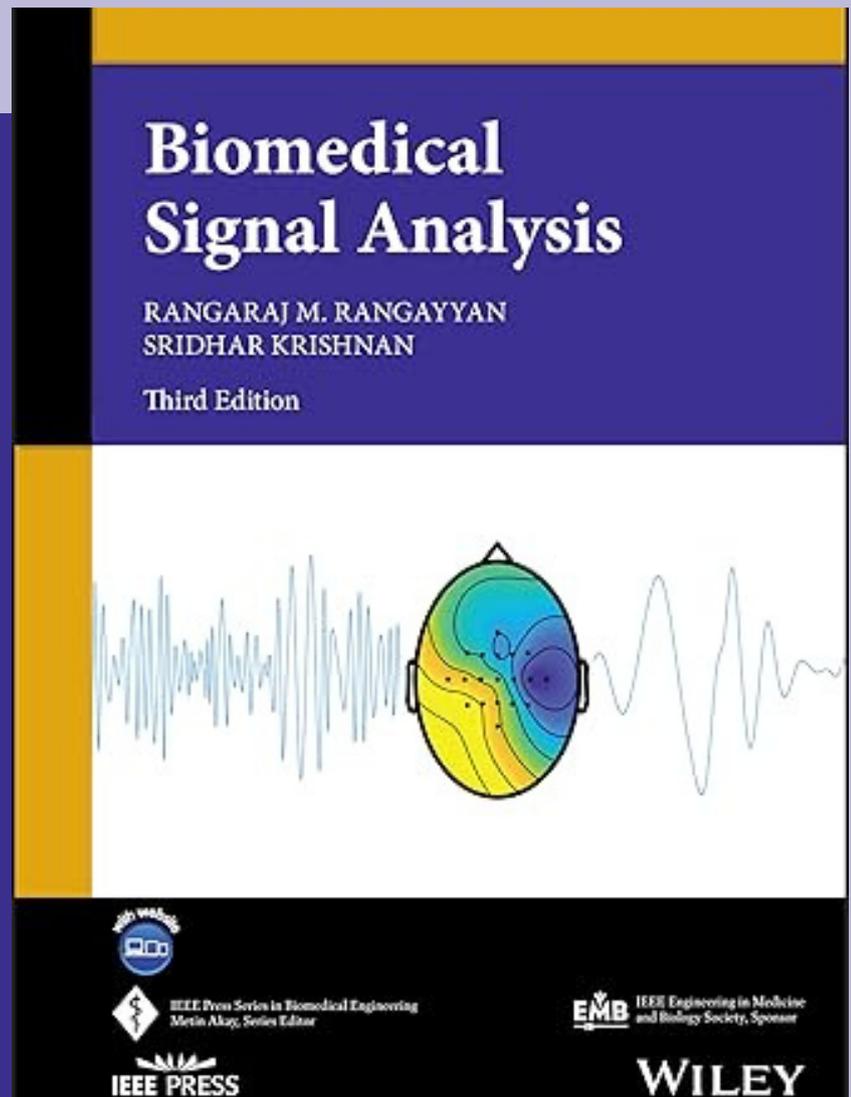
Biomedical Signal Analysis provides extensive insight into digital signal processing techniques for filtering, identification, characterization, classification, and analysis of biomedical signals with the aim of computer-aided diagnosis, taking a unique approach by presenting case studies encountered in the authors' research work.

Each chapter begins with the statement of a biomedical signal problem, followed by a selection of real-life case studies and illustrations with the associated signals. Signal processing, modeling, or analysis techniques are then presented, starting with relatively simple "textbook" methods, followed by more sophisticated research-informed approaches. Each chapter concludes with solutions to practical applications. Illustrations of real-life biomedical signals and their derivatives are included throughout. The third edition expands on essential background material and advanced topics without altering the underlying pedagogical approach and philosophy of the successful first and

The book is enhanced by a large number of study questions and laboratory exercises as well as an online repository with solutions to problems and data files for laboratory work and projects.

Source: Amazon

Rangayyan, Rangaraj J (2024) Biomedical Signal Analysis (IEEE Press Series on Biomedical Engineering) . New Jersey, Wiley.



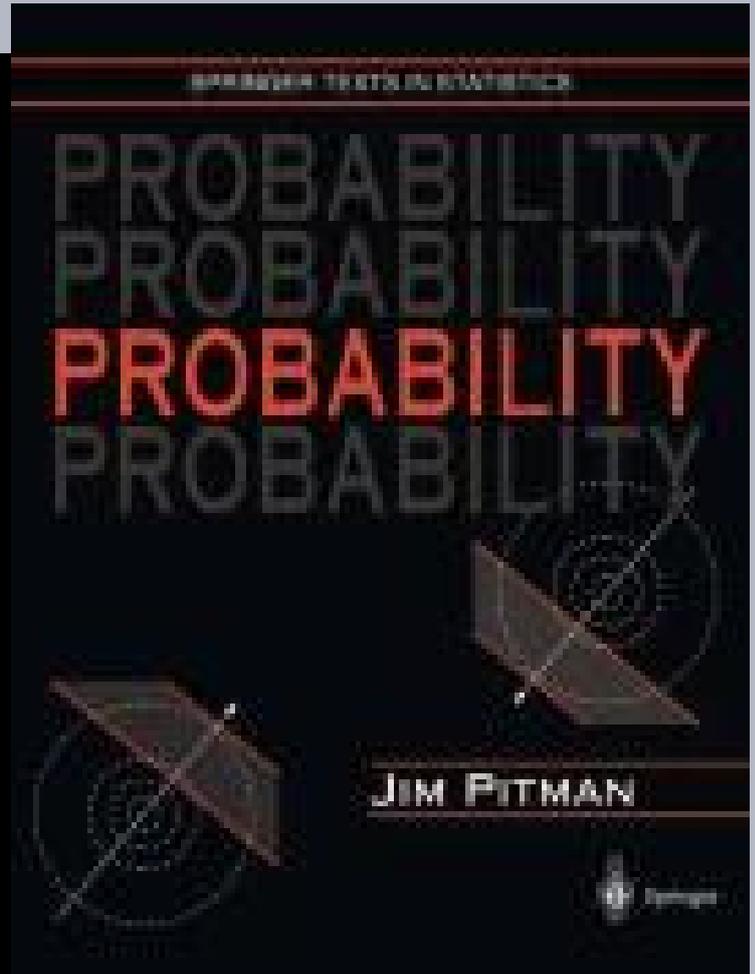
New Additions to the Knowledge Centre Collection

Probability (Springer Texts in Statistics)

by Jim Pitman

This is a text for a one-quarter or one-semester course in probability, aimed at students who have done a year of calculus. The book is organised so a student can learn the fundamental ideas of probability from the first three chapters without reliance on calculus. Later chapters develop these ideas further using calculus tools. The book contains more than the usual number of examples worked out in detail.

The most valuable thing for students to learn from a course like this is how to pick up a probability problem in a new setting and relate it to the standard body of theory. The more they see this happen in class, and the more they do it themselves in exercises, the better. The style of the text is deliberately informal. My experience is that students learn more from intuitive explanations, diagrams, and examples than they do from theorems and proofs. So the emphasis is on problem solving rather than theory.



Source: Publisher

Pitman, Jim (199)Probability (Springer Texts in Statistics) . New York, Springer, 1997.



New Additions to the Knowledge Centre Collection

Monte Carlo Methods

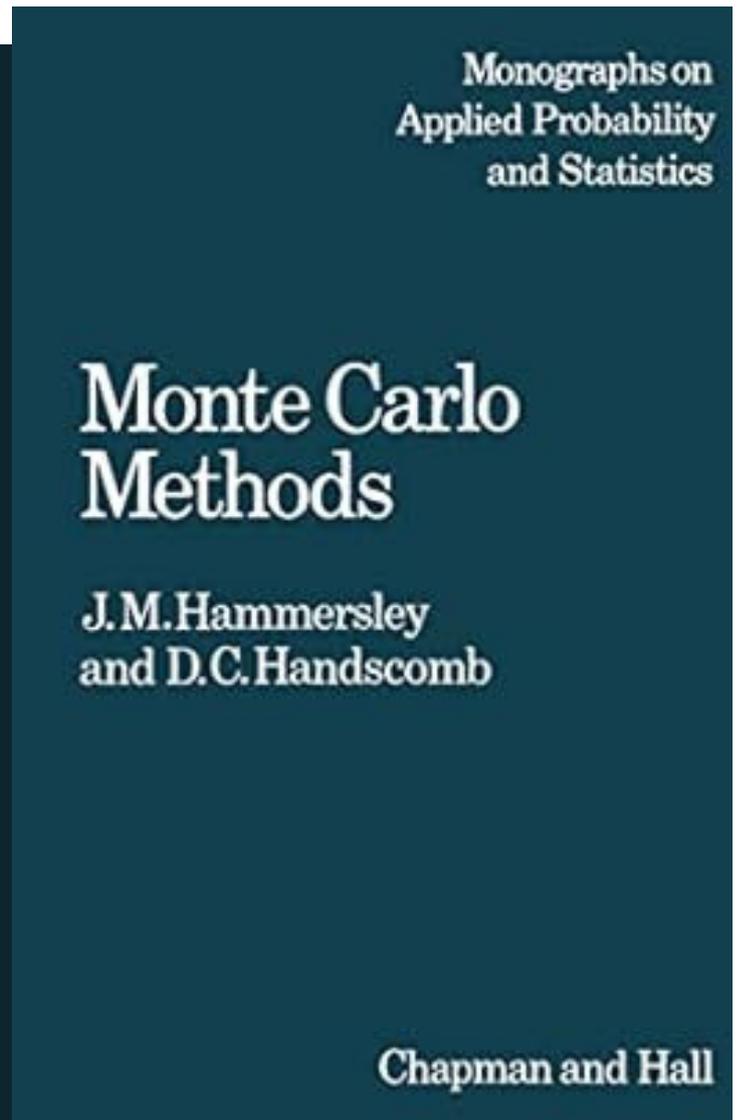
by J. M. Hammersley ,
D. C. Handscomb

This monograph surveys the present state of Monte Carlo methods. We have dabbled with certain topics that have interested us. Although personally, we hope that our coverage of the subject is reasonably complete; at least we believe that this book and the references in it come near to exhausting the present range of the subject. On the other hand, there are many loose ends; for example we mention various ideas for variance reduction that have never been seriously applied in practice. This is inevitable, and typical of a subject that has remained in its infancy for twenty years or more. We are convinced nevertheless that Monte Carlo methods will one day reach an impressive maturity.

The main theoretical content of this book is in Chapter 5; some readers may like to begin with this chapter, referring back to Chapters 2 and 3 when necessary. Chapters 7 to 12 deal with applications of the Monte Carlo method in various fields, and can be read in any order. For the sake of completeness, we cast a very brief glance in Chapter 4 at the direct simulation used in industrial and operational research, where the very simplest Monte Carlo techniques are usually sufficient.

We assume that the reader has what might roughly be described as a 'graduate' knowledge of mathematics. The actual mathematical techniques are, with few exceptions, quite elementary, but we have freely used vectors, matrices, and similar mathematical language for the sake of conciseness.

Source: Publisher
Hammersley, JM (1979) *Monte Carlo Methods*. London, Chapman and Hall.



New Additions to the Knowledge Centre Collection

The Unbearable Lightness of Being by Milan Kundera

When *The Unbearable Lightness of Being* was first published in English, it was hailed as "a work of the boldest mastery, originality, and richness" by critic Elizabeth Hardwick and named one of the best books of 1984 by the *New York Times Book Review*. It went on to win the *Los Angeles Times Book Prize for Fiction* and quickly became an international bestseller. Twenty years later, the novel has established itself as a modern classic.

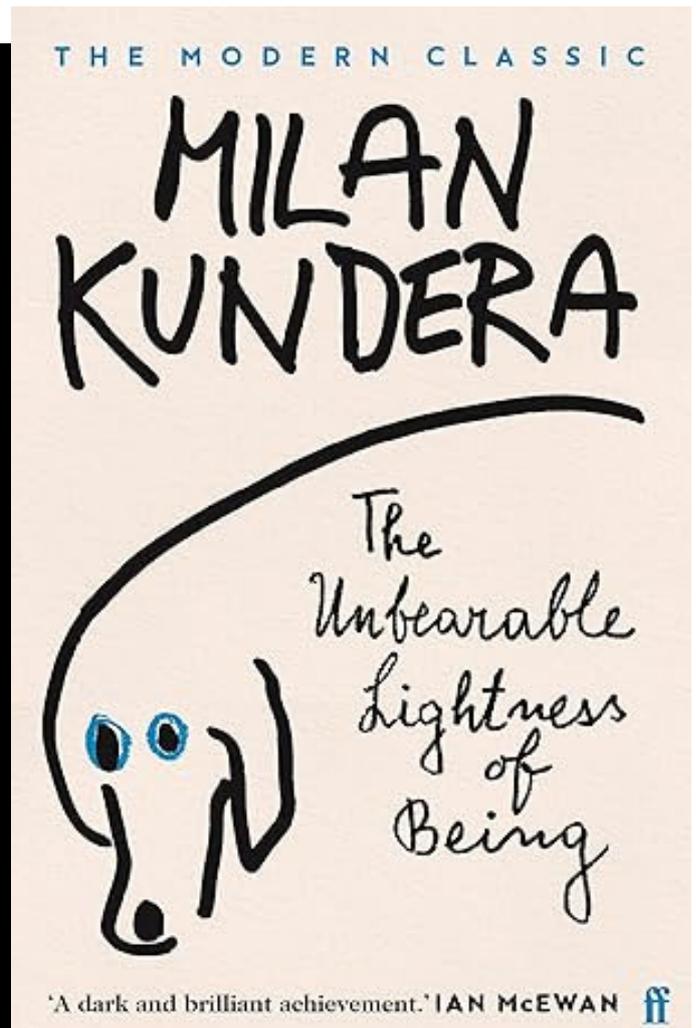
A young woman in love with a man torn between his love for her and his incorrigible womanizing; one of his mistresses and her humbly faithful lover—these are the two couples whose story is told in this masterful novel.

Controlled by day, Tereza's jealousy awakens by night, transformed into ineffably sad death-dreams, while Tomas, a successful surgeon, alternates loving devotion to the dependent Tereza with the ardent pursuit of other women. Sabina, an independent, free-spirited artist, lives her life as a series of betrayals -- of parents, husband, country, love itself -- whereas her lover, the intellectual Franz, loses all because of his earnest goodness and fidelity.

In a world in which lives are shaped by irrevocable choices and by fortuitous events, a world in which everything occurs but once, existence seems to lose its substance, its weight. Hence we feel, says the novelist, "the unbearable lightness of being" -- not only as the consequence of our private acts but also in the public sphere, and the two inevitably intertwine. This magnificent novel encompasses the extremes of comedy and tragedy, and embraces, it seems, all aspects of human existence

Source: Publisher

Kundera, Milan (1985) *The Unbearable Lightness of Being*. London, Faber and Faber limited.



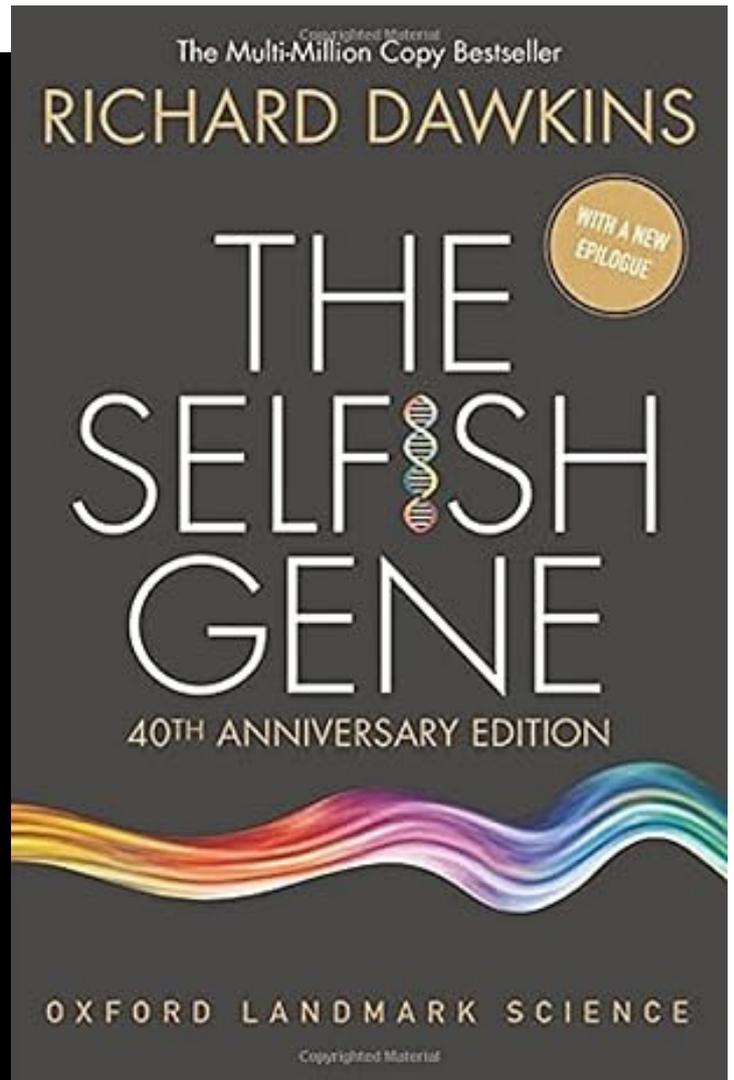
New Additions to the Knowledge Centre Collection

The Selfish Gene by Richard Dawkins

As influential today as when it was first published, *The Selfish Gene* has become a classic exposition of evolutionary thought. Professor Dawkins articulates a gene's eye view of evolution - a view giving centre stage to these persistent units of information, and in which organisms can be seen as vehicles for their replication. This imaginative, powerful, and stylistically brilliant work not only brought the insights of Neo-Darwinism to a wide audience, but galvanized the biology community, generating much debate and stimulating whole new areas of research. Forty years later, its insights remain as relevant today as on the day it was published.

This 40th anniversary edition includes a new epilogue from the author discussing the continuing relevance of these ideas in evolutionary biology today, as well as the original prefaces and foreword, and extracts from early reviews.

Oxford Landmark Science books are 'must-read' classics of modern science writing which have crystallized big ideas, and shaped the way we think.



Source: Publisher
Hawkins, Richard (2016) *The Selfish Gene*. Packt Publishing.UK, Oxford University Press

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