

DIGITAL UNIVERSITY KERALA

NEWSLETTER

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DUK/NL/23/VOL4



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Message

Dr. Asharaf S **Dean (Research & Development), Professor**

It is a great pleasure to present before you the May 2022 edition of our newsletter. As always, we are committed to live up to our mission of curating a responsible digital world; the month of May was not an exception. In fact we were fortunate to have many activities that are in tune with our entrusted responsibility. In this direction, the admission process for our second batch of postgraduate courses got initiated and the overwhelming response received from across India was a pleasant surprise. But it reminds us of the huge responsibility we have as the first digital university of India in leading, enabling, and nurturing a responsible culture of leveraging the potential of digital technologies and transformation for the development of our nation.

We are living in an era where digital enablement and transformation is considered as a primary means for survival in every walks of life. As an academic institution committed towards achieving public good through knowledge/technology development, dissemination and practice we also had many opportunities to contribute towards this cause in the month of May. To name a few, we have conducted several workshops/seminars in collaboration universities/organisations such as University of Southampton UK, WHO, IEEE CAS and Gramener. In this month, we were also involved in several other developmental/capacity building initiatives in the areas of AI and e-Governance. I am sure, DUK will be able to contribute more towards its noble mission, with your continued support and collaboration. Wish you a happy reading.



LATEST NEWS UPDATES

Innovation Ecosystem visit organized by Innovation Club – DUK

The Innovation Club - DUK organized a one day visit for the students to the Kerala Technology Innovation Zone, Kochi during the Innovation week celebrations organized by KSUM. The team got the opportunity to visit the Super Fab Lab and Maker Village and explore the cutting edge tools and machinery used during the various stages of product development. The students interacted with startups to understand about the challenges and opportunities that exist in the startup ecosystem.



Dr. Mithun P receives the Nava Kerala Post-Doctoral fellowship certificate from the Chief Minister.

Dr. Mithun Padmakumar, Post-doctoral fellow, School of Digital Sciences, receiving the Nava Kerala Post-doctoral fellowship certificate from the Chief Minister. From among the 21 recipients of the fellowship in the domain of Life Sciences, he was the one chosen to receive the certificate directly from the Chief Minister.



EVENTS CORNER

DUK Empowers IKM Developers

In order to equip with the industry standards, a 5 day Training on React and AngularJS was conducted for the Developers from Information Kerala Mission(IKM) from May 23 to 27, 2022 by Digital University Kerala. Digital university Kerala always stands as a bridge to connect the industry and government.



Knowledge Workshop 2022 on Integration of Digital Technologies in Disaster Preparedness

Workshop was a two-week event, being curated by the Digital University Kerala and the University of Southampton, UK, and funded by the British Council. The event was partnered with the United Nations Environment Programme (UNEP) and WHO.

Highlights

Week 1	Week 2
Learning aiding response & recovery	Disaster Management & Challenges
Visual perspective of disasters	Modeling Uncertainty
Robots & drones to the rescue	Inventory Models
Speech as an aid	Simulating logistic operations under uncertainty
Emergency reuniting through Trial & Error	Logistic issues in humanitarian operations

Let's Join To Build Back Better

A FEW WORDS ABOUT THE WORKSHOP

The knowledge workshop brings together ideas, experiences, and solutions on emerging digital technologies with their potentiality in disaster resilience.

INTENDED PARTICIPANTS
Government officials, Faculty Members, Students.

HOW TO REGISTER
<https://forms.gle/9aP2PjnZdLs4g6>

For any other queries mail us at: knowledgeworkshop2022@duk.ac.in

SPONSORED BY
BRITISH COUNCIL

HOSTED BY
DIGITAL UNIVERSITY KERALA | University of Southampton

IN PARTNERSHIP WITH
UN environment programme

KNOWLEDGE Workshop on Integration of Digital Technologies in Disaster Preparedness

VENUE
Digital University Kerala, Technocity Campus, Kerala -India
May 16-27, 2022 [2.00 - 5.00 p.m IST]

BRITISH COUNCIL

DIGITAL UNIVERSITY KERALA
Creating a responsible digital world

University of Southampton

UN environment programme

TWO WEEK KNOWLEDGE WORKSHOP
ON
INTEGRATION OF DIGITAL TECHNOLOGIES IN DISASTER PREPAREDNESS

May 16-27, 2022 | Digital University Kerala | 2.00 PM - 5.00 PM [IST]

EVENTS CORNER

Inauguration of the Workshop on "PCB design and 3D Printing" at Maker Village on 19th and 20th May 2022

Maker Village in collaboration with CoE in Intelligent IoT Sensors, India Innovation Center in Graphene and IEEE CASS Kerala Chapter is organizing a 2-day workshop in "PCB design and 3D Printing" for VIII, IX and X grade students on 19th and 20th May 2022. The workshop aims to provide knowledge about PCB Design and its fabrication so that any student can make a project on his/her own. Additive manufacturing is the manufacturing technique that employs 3D printers which helps the participants to create physical objects from its digital format. The workshop also includes startup interaction sessions featuring invited speakers from Astrek Innovations, Fuselage Innovations, HW design Labs, Inspirein Technologies and Maker Village Lab visits.

PCB AND 3D PRINTING WORKSHOP
Maker Fest 2022
 On 19th & 20th May 2022 (9:30 am to 5:00 pm)
 Location: Maker Village, Kochi

Maker Village in collaboration with Centre of Excellence in Intelligent IoT Sensors, India Innovation Center in Graphene and IEEE CASS is organizing a 2-day workshop in PCB design and additive manufacturing. The workshop aims to provide knowledge about PCB Design and its fabrication so that any student can make a project on his/her own. Additive manufacturing is the manufacturing technique that employs 3D printers which helps the participants to create physical objects from its digital format.

Day 1
19/05/2022 (Thursday)

- 9:30 am to 9:45 am: Inaugural Session
- 9:45 am to 10:00 am: Tea Break
- 10:00 am to 11:30 pm: My First Circuit: Circuit Designing
- 11:30 am to 12:30 pm: Startup Interaction
- 12:30 pm to 1:30 pm: Lunch Break
- 1:30 pm to 3:00 pm: Introduction to PCB Designing
- 3:00 pm to 3:15 pm: Tea Break
- 3:15 pm to 4:40 pm: Components Soldering and Testing
- 4:40 pm to 5:00 pm: Startup Interaction

Day 2
20/05/2022 (Friday)

- 9:30 am to 10:40 am: Session I: Additive Manufacturing: Design
- 10:40 am to 11:00 am: Startup Interaction
- 11:00 am to 11:15 am: Tea Break
- 11:15 to 12:10 pm: Session II 3D Printing
- 12:10 pm to 12:30 pm: Startup Interaction
- 12:30 pm to 1:30 pm: Lunch Break
- 1:30 pm to 2:45 pm: Maker Village Lab Visit (HAAS VMC)
- 2:45 to 3:00 pm: Tea Break
- 3:00 pm to 4:30 pm: Maker Village Lab Visit (SMT Assembly Lab)
- 4:30 pm to 5:00 pm: Valedictory function

Startup interaction featuring invited speakers from:

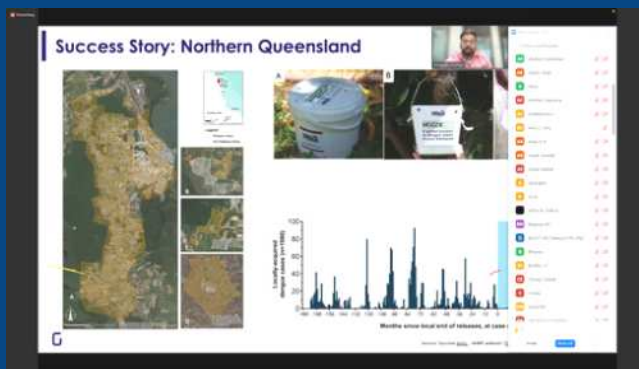
INSPIREIN, ASTREK, HW Design Labs, FUSelage innovations

EVENTS CORNER

Online webinar on Ecology & AI: Practical uses of artificial intelligence in solving ecological problems

In the occasion of #NationalTechnologyDay, 11 May 2022, School of Informatics - Digital University Kerala conducted a free online webinar in association with Gramener on the topic "Ecology & AI: Practical uses of artificial intelligence in solving ecological problems" at 3.00 PM (IST). It was a grand success with about 120 participants.

Speaker Mr. Shравan Kumar A, Director, Client Success, Gramener



National Technology Day 2022
Integrated Approach in Science and Technology for sustainable future

CV Raman Laboratory of Ecological Informatics,
School of Informatics, Digital University Kerala
Hosts

Webinar on
AI in Ecology for
Sustainable Future

Speaker:
Shравan Kumar A
Director, Client Success,
Gramener Technologies

11 May 2022
3-4 PM IST
Via Zoom

[Register for Free](#)

Title
Ecology & AI : Practical Uses of Artificial Intelligence in Solving Ecological Problems

Gramener
Insights as Stories

DIGITAL UNIVERSITY KERALA
Creating a remarkable digital world

<https://gramener.com/ai/for/good>

<https://duk.ac.in/mse/ecology/>

Introduction

Shравan Kumar A
Director, Client Success
@shkravankumar
@shkrav_a

Insights as Stories
Gramener
Helps start, apply and adopt Data Science
"Simplify Data Science for all!"
We are Data Storytellers
We want
7,685,895,223
people to experience insights as data stories.

120+ Clients:
Microsoft, Bill & Melinda Gates Foundation, Deloitte, IBM, etc.

Insight Story Data


EVENTS CORNER

FORTY FIVE DAY AI TRAINING FOR NEXTGEN POLICE CONCLUDES AT DUK CAMPUS

A fifteen-member team from the Kerala Police Department successfully completed the 45-day training programme on "Capacity Building in Responsible Artificial Intelligence and Data Analytics". The valedictory function and certificate distribution function was held at Digital University Kerala, Technopark Phase 4 campus. The training primarily covered the application of AI, Machine Learning, Image Processing and Data Analytics in policing besides an International Workshop on the fast evolving Brain Computer Interface facilitating brain reading of sorts. The participants got a chance to interact with eminent national and international speakers during the workshop.

Inspector General of Police (South Zone) P Prakash distributed the certificates to the participants. Dr. Elizabeth Sherly, Dean Academics, DUK who designed the course curriculum delivered the welcome address. Dr. Saji Gopinath, Vice Chancellor Digital University, pointed out that this training shows how smart governance can be made possible by creating capacity for people working at Government organizations to develop solutions. He mentioned that predictive governance will be the next stage of citizen support solutions.





He urged the police force to uphold ethics while utilizing AI and data analytics-based tools for crime detection and control. The technology has to be used in a sustainable manner for the greater good.

Speaking at the event, the Inspector General said that the team will start applying the new skills learned in policing immediately. Technologies like Artificial Intelligence and Data Analytics will help police to use these data constructively to improve policing and provide better solutions.

Five projects selected as part of the ongoing training for technology aided policing - an investigation assistant chatbot, anti social behavior prediction on social media, crime hotspots prediction, culprit prediction using modus operandi and face attribute manipulation were presented by the teams during the ceremony. Dr.Malu.G, Research Officer DUK who coordinated the training programme delivered the vote of thanks.

Faculty Publications

Sini V. Pillai and Drishya Dev, Dynamics of Gig Work Economy: An investigation of workers perspective on Gig Work, IIMS Journal of Management Science, Sage Publishing, June 2022.

KNOWLEDGE CENTRE NEWS

►►► Software of the Month

Mendeley

<https://www.mendeley.com/>

Mendeley is a Reference management software from the Elsevier publishers. It helps us to search literature from a huge collection of bibliographic data. Mendeley also allows us to organize the references in a very systematic manner. It can be used to insert in-text citations into the research reports and create bibliography according to international styles like the APA and MLA.

We can also keep pdf files of the research literature in 2 GB space available with an account. Mendeley also helps in Research data curation and Management. It is a very handy tool for researchers to carry on with organized research.

►►► Information Resource of the Month

HathiTrust Digital Library

<https://www.hathitrust.org/>

Founded in 2008, HathiTrust is a not-for-profit collaborative of academic and research libraries preserving 17+ million digitized items. HathiTrust offers reading access to the fullest

extent allowable by U.S. copyright law,

computational access to the entire corpus for scholarly research, and other emerging services based on the combined collection.

HathiTrust Digital Library is a digital preservation repository and highly functional access platform. HathiTrust provides long-term preservation and access services to digitized content from a variety of sources, including Google, the Internet Archive, Microsoft, and in-house member institution initiatives. Items in the public domain are in full-view for everyone and items held in copyright are searchable.

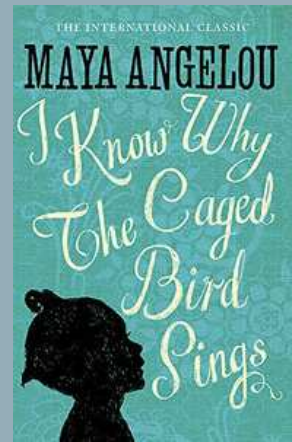
(Courtsey: <https://www.hathitrust.org/>)



Book Review of the Month

I know why the caged bird sings by Maya Angelou

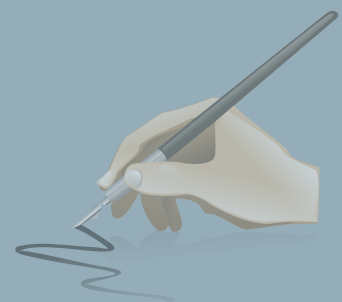
I picked the book 'I KNOW WHY THE CAGED BIRD SINGS' from the shelf in the library of Digital University while I was looking at the various other books. This book caught my eyes because once, my husband told me about its author 'Maya Angelou, an American memoirist, popular poet, and civil rights activist.



In this book, she tells of her life up to the age of 17, where she has beautifully described the struggle of being African American. Here the metaphor of the caged bird's helpless existence illustrates the oppressive experience of African Americans. Throughout the book, Maya feels displaced from her family, robbed of her voice by sexual assault, and unwanted because of her skin color. This book depicts Maya's resilience and strength in the face of adversity. The fact that the caged bird sings of freedom despite its current situation conveys a feeling of hope that the caged bird will be released one day. This message coincides with the hope that one day African Americans will no longer suffer from discrimination and oppression in a prejudiced society. By the turn of the final page, Maya finds comfort in her groundbreaking employment and in the birth of her son. For the first time in her autobiography, Maya realizes that she is just as important as everyone else. Maya realizes that she has special, undeniable love to give and love to receive in life.



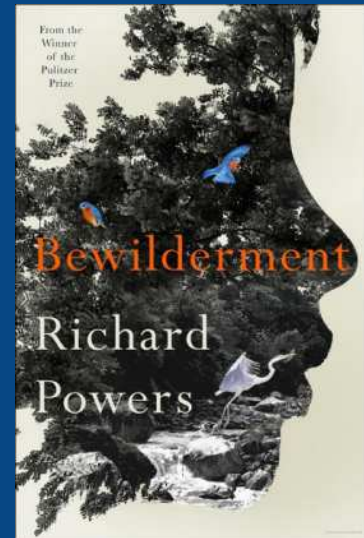
Dr. Sumedha Arora
Visiting Assistant Professor
SOCSE



NEW ADDITIONS TO THE COLLECTION

BEWILDERMENT

A heartrending new novel from the Pulitzer Prize-winning and #1 New York Times best-selling author of *The Overstory*. "Richard Powers, whose novels combine the wonders of science with the marvels of art, astonishes us in different ways with each new book." -Heller McAlpin, NPR Books. The astrobiologist Theo Byrne searches for life throughout the cosmos while single-handedly raising his unusual nine-year-old, Robin, following the death of his wife. Robin is a warm, kind boy who spends hours painting elaborate pictures of endangered animals. He's also about to be expelled from third grade for smashing his friend in the face. As his son grows more troubled, Theo hopes to keep him off psychoactive drugs. He learns of an experimental neurofeedback treatment to bolster Robin's emotional contr...



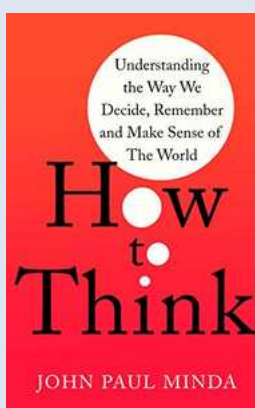
Source: Publisher

Powers, R. (2021). *Bewilderment*.

HOW TO THINK

UNDERSTANDING THE WAY WE DECIDE, REMEMBER AND MAKE SENSE OF THE WORLD

A This book will get you thinking about thinking.



We understand more about the brain than ever before and we also have more tools than ever before to help us think. This book will show you how your brain works, how your mind works, why we all make certain mistakes in thinking and why that's not always a bad thing.

In order to understand how people behave, you need to understand how people think. And if you want to understand how people think, you need to have a basic understanding of cognitive psychology, cognitive science and cognitive neuroscience. This book explains cognition and the links between the brain, the mind and behavior in a clear and straightforward way.

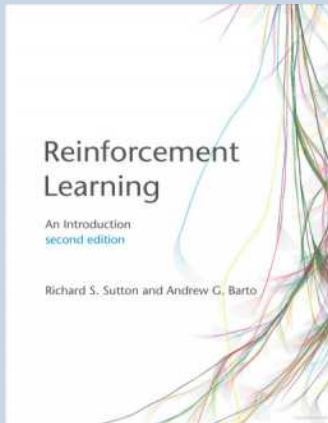
Through interesting case studies and research examples, Minda shows how the brain is involved i...

Source: Publisher

Minda, J. P. (2022). *How to Think : Understanding the Way We Decide, Remember and Make Sense of the World*. Little, Brown Book Group Limited.

NEW ADDITIONS TO THE COLLECTION

REINFORCEMENT LEARNING : AN INTRODUCTION



The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence.

Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics.

Source: Publisher

Sutton, R. S., Bach, F., & Barto, A. G. (2018). Reinforcement Learning: An Introduction. Massachusetts: MIT Press Ltd.

BREAKING BOUNDARIES: THE SCIENCE OF OUR PLANET

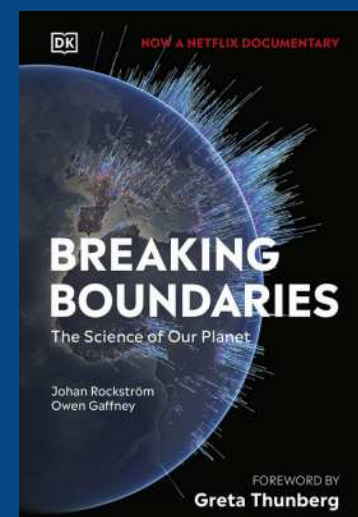
On the brink of a critical moment in human history, this book presents a vision of "planetary stewardship" - a rethinking of our relationship with our planet - and plots a new course for our future.

The authors, whose work is the subject of a new Netflix documentary released in summer 2021 and narrated by Sir David Attenborough, reveal the full scale of the planetary emergency we face - but also how we can stabilise Earth's life support system.

The necessary change is within our power if we act now.

In 2009, scientists identified nine planetary boundaries that keep Earth stable, ranging from biodiversity to ozone. Beyond these boundaries lurk tipping points. To stop short of these tipping points, the 2020s must see the fastest economic transition in history.

Source: Publisher



Rockstroem, J. (2021). Breaking Boundaries: The Science of Our Planet. London: Dorling Kindersley Ltd.

CHECK THE OPAC OF KNOWLEDGE CENTRE FOR NEW ADDITIONS AND THEIR AVAILABILITY AT
[HTTP://LIBCAT.DUK.AC.IN:8081/](http://libcat.duk.ac.in:8081/)

MORE TITLES ADDED...

[Other Minds: The octopus and the evolution of intelligent life by Peter Godfrey-Smith](#)

[The virgin suicides by Jeffrey Eugenides](#)

[The India SaaS story: Lessons in building and scaling from India's most valuable SaaS companies by Manav Garg](#)

[Love in the days of rebellion by Ahmet Altan](#)

[The last queen by Chitra Banerjee Divakaruni](#)

[Unaccustomed Earth by Jhumpa Lahiri](#)

[In the shadow of the mountain by Silvia Vasquez-Lavado](#)

[To paradise by Hanya Yanagihara](#)

[Internet and world wide web: How to program by Paul Deitel](#)

[The book of sand by Theo Clare](#)

[The god of small things by Arundhati Roy](#)

[The circle of reason by Amitav Ghosh](#)

[The glass palace by Amitav Ghosh](#)

[NTA-UGC NET: Computer Science and applications by Sanjay Singhal](#)

[NTA-UGC NET/SET \(JRF&Lectureship\): Computer Science and applications by Surabhi Sharma](#)
By: Sharma, Surabhi

[Blogging for dummies by Amy Lupold Bair](#)

[Big data and analytics by Seema Acharya](#)

[PHP and MySQL web development by Luke Welling](#)

[Data science and machine learning with R by Reema Thareja](#)

[Image from Amazon.com Normal view The Anomaly by Herve Le Teller](#)

THE DIGITAL ERA IS HERE!

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ADMISSIONS OPEN ON-CAMPUS PROGRAMS

MTech

Computer Science & Engg.,
Electronics Engg., Electronic Product Design

MSc

Computer Science, Data Analytics,
Ecology, Electronics

MBA

Full time & Flexible on-campus

PGD

e-Governance

"Opportunities to earn a
stipend by participating
in real-life projects"

Last Date of Application : May 25, 2022

ADMISSION HELPDESK

Mob No : 8078193800
Landline : +91-471-2788019
Email : admission-pg@duk.ac.in
<https://duk.ac.in/admissions>



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