

DIGITAL UNIVERSITY KERALA

Kerala University of Digital Sciences, Innovation and Technology

NEWSLETTER

DUK/NL/VOL:2/ISSUE 6/JUNE 2023





Table of Contents

- Visit of Shri. Alkesh Kumar Sharma IAS, Secretary, Ministry of Electronics and IT, Government of India
- Training in Open Source IC Design from School of Electronic Systems and Automation
- Digital University
 Kerala Establishes Brain
 Computing Lab to Foster
 Research in
 Neuroscience
- Google IO Extended 2023 at Digital University Kerala
- Meeting with Harithakeralam Mission

- Be Cyber Smart: Secure your Digital Life - One Month Cyber Security Program
- DACE 2023-2024 Field Identification Visit
- Blood Donation Camp
- Interaction of students with the Honorable Vice Chancellor of DUK on Social Engagement
- Academia-Industry
 Connects by Placement
 Cell DUK
- Academic Forum of Project Management Institute Inaugurated at Digital University Kerala

- 9th International Yoga Day
- World Environment Day Celebration in DUK Campus
- Book Exhibition
- Publications
- Achievements/Innovations
- DUK Student Council 2022 2024
- Knowledge Centre News

"Automation applied to an inefficient operation will magnify the inefficiency."

- Bill Gates







Visit of Shri. Alkesh Kumar Sharma IAS Secretary, Ministry of Electronics and IT, Government of India









Training in Open Source IC Design from School of Electronic Systems and Automation





School of Electronic Systems and Automation at Digital University Kerala recently conducted an enriching workshop on Training in Open Source IC Design. Participants explored the intricacies of digital circuit design, delving into the fundamentals of Verilog and gaining hands-on experience in open-source IC design.



Digital University Kerala Establishes Brain Computing Lab to Foster Research in Neuroscience





Digital University Kerala (DUK) has recently inaugurated a state-of-the-art brain computing lab at its Centre for Excellence in Brain Computing (CEBC). The lab, equipped with advanced facilities to extract and process EEG signals, was officially opened on June 14, 2023, by Sri. P Suresh Babu, the registrar of DUK. During the felicitation ceremony at the inaugural function, Dr. Elizabeth Sherly, the head of CEBC, expressed her views on the significance of the brain computing lab by stating "The inauguration of this brain computing lab represents a significant milestone for Digital University Kerala and highlights the institution's commitment to fostering cuttingedge research in the field of neuroscience."

The inauguration ceremony included a comprehensive training session on the utilization of the lab's cutting-edge equipment. One of the key features of the lab is its 16-channel EEG signal extraction and processing software, enabling researchers to analyze brain activity with greater precision. CEBC is in the process of expanding the lab's facilities by acquiring devices for eye tracking. This expansion forecasts more comprehensive research to advance the field of brain computing.

With the establishment of this new lab, CEBC aims to expand the horizons of ongoing research in various fields. Computer vision, speech research, and brain activity studies will benefit significantly from the lab's capabilities. Moreover, the implications of this research extend to multiple domains, including user experience design, customer and market research, neurology, psychology, educational research, clinical psychology, and human-computer interaction. With its advanced facilities, the lab is intended to make substantial contributions to the scientific community and pave the way for exciting breakthroughs in brain-computer interaction.



Google IO Extended 2023 at Digital University Kerala



Google Developer Group (GDG) Trivandrum, is a local community of developers, tech enthusiasts, and professionals in Trivandrum. It is a part of the broader GDG community, which is supported by Google and aims to foster collaboration and learning among developers worldwide. They organize regular meetups, workshops, hackathons, and other events that focus on a wide range of topics related to Google technologies, products, and developer tools.

The event 'Google I/O Extended 2023' was conducted on Saturday, June 10, 2023 at DUK. There were 123 participants who actively participated in the program. Google I/O is an annual conference where the world hears about Google's latest developer solutions, products, and technology.

Meeting with Harithakeralam Mission

Following the request of the Panchayat of Pothencode, Social Engagement Cell(SEC) at DUK has initiated an integrated approach to the management of water bodies in one of the adopted villages, Keezhthonnakkal. SEC volunteers visited the Keezhthonnakkal village to understand the situation of water bodies in this village and observed that several water bodies in Keezhthonnakkal need proper preservation. One-time cleaning is not a sustainable solution for a proper water body management. Hence, SEC at DUK organised a meeting with Harithakeralam Mission on 23-06-2023 to get expert advice and possibilities of future collaboration in integrated water body management in the adopted villages of DUK.



Be Cyber Smart: Secure your Digital Life One Month Cyber Security Program



Kerala Security Audit and Assurance Center (KSAAC) hosted four-week training programme on cyber security for the 4th semester computer engineering students of Govt Polytechnic College Attingal, Thiruvananthapuram during May 10 to June 2, 2023 at Digital University campus, Technopark Phase 4. A total of 29 students actively participated in the programme. It was organized under the CSR activities of the DUK.

The purpose of the programme was to provide necessary knowledge and skills to protect their information assets and secure their cyber space. An online examination was conducted to assess their learning levels. The certificate of participation was awarded to all the students who actively participated in all the sessions and completed the assessment process.

DACE 2023-2024 Field Identification Visit

The Social Engagement Cell(SEC) of DUK visited potential communities in the DUK adopted villages to identify the best field site for the DACE batches of 2023–24. SEC volunteers who have completed their DACE program last semester also joined the visit, helping the team with the students' perspectives. During the visits, students of DUK opened up on DACE and the way the program helped the students in understanding the importance of solving real-life problems, using the technical knowhow they learn in the classrooms. Some fields included Baskar Nagar colony and Pallithottam colony in Athiyannoor village and Nethajipuram in Keezhthonnakkal village.





Blood Donation Camp

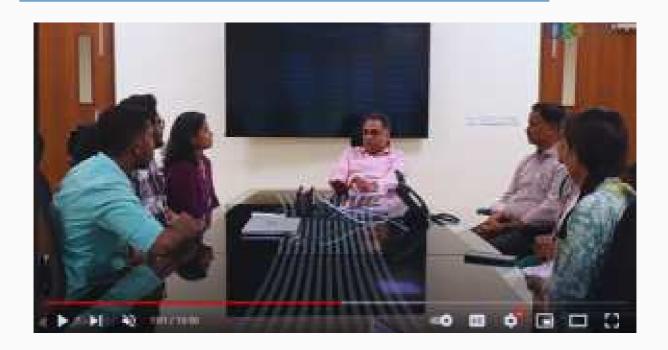


The Social Engagement Cell and Physical Education Department of DUKjointly organized a blood donation camp on Jun 1, 2023 in collaboration with TEJUS and Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram. The program was a huge success, with the participation of more than a hundred people who registered online, of which around 30 people were turned down due to inappropriate hemoglobin levels, medication intake, lack of sleep, and other such reasons. Walk-in-donors had to be turned down as well because registered participants were more than sufficient. Sree Chitra staff informed that this was the first time in their experience that such a large number of donors turned up in one single camp. This was a day that made DUKians proud.





Interaction of students with the Honorable Vice Chancellor of DUK on Social Engagement



Students who have been active in the social engagement activities of DUK got an opportunity to interact with the esteemed Vice Chancellor, Prof. Saji Gopinath, during a session organized by the Social Engagement Cell @ DUK. His views on social engagement activities and the importance of the DACE program were thought provoking. He spoke about the transformative potential of community engagement activities, emphasizing the need for inclusive digital initiatives that address the unique challenges faced by different communities. Students who were part of the interaction felt the event as truly inspiring. The Honorable Vice Chancellor's vision towards equipping DUKians to utilize technology for the betterment of society and his commitment to inclusive digital initiatives left a lasting impression on students. Coordinator of the Social Engagement Cell, Pradeep Kumar K. enlightened students on the processes and programs of implementation of the vision sketched by the Honourable Vice Chancellor.

Link to the Video:

https://youtu.be/x7kTEq7XotM



Academia-Industry Connects by Placement Cell DUK

Connect with Reflections Info Systems

The Placement Cell DUK organized a meeting with Reflections Info Systems senior officials on 22 June 2023 as part of the Academia and Industry Collaboration. SHAIK UMMAR -Asst Director | Data Services, AI/ML, Ambika Madaan, Sandeep, Muhanned Muneer-HR interacted with faculty members on possible collaborations with the University. The range of cutting-edge programs, including MTech in CSE with specializations in Cyber Security, Artificial Intelligence, and Connected Systems and Intelligence, as well as MTech in Electronics with specializations in AI hardware, Signal Processing, VLSI, IoT, and Robotics, were particularly appealing to them. Additionally, the MSc programs in CSE with a specialization in Cyber Security and Machine Intelligence, Data Analytics with fields in Computational Science and Geospatial Analytics, Geo-Informatics and Data Analytics, Bio AI, and Ecological Informatics, along with the MBA program in Business Analytics and Technology Management, offer diverse opportunities for collaboration.

Connect with Sagenome Labs

As part of the Academia and Industry Collaboration, the Placement Cell DUK organized a meeting with Sagenome officials and a visit to Sagenome Labs on 23rd June 2023. Dr. KG Satheesh Kumar, Dr. Joseph Tharion, Dr. Anoop, Dr. Athira, Dr. Sooraj NP and Mahendra K.S visited the labs. They interacted with the Chairman of Sagenome Labs, Dr. M. Ayyappan, and other senior officials.

The meeting began with a brief presentation about the company and their work in the field of Genomics. After the presentation, the participants discussed several potential areas for collaboration, including:

- Student workshops and training programs to help students develop the skills they need for careers, especially in BioAI.
- Research collaborations between DUK faculty and Sagenome scientists.
- Internship and placement opportunities for DUK students at Sagenome.
- Mentorship programs for DUK students by Sagenome employees.





The meeting ended with a tour of Sagenome's labs. The participants expressed their appreciation for the opportunity to discuss collaboration with Sagenome and agreed to continue the conversation in the future. This meeting is a significant step forward in the ongoing collaboration between DUK and Sagenome. The two organizations share a common goal of advancing research and education in the field of BioAl, and this meeting has identified several ways that they can work together to achieve that goal. The meeting demonstrates DUK's commitment to building solid relationships with industry partners.

Connect with TCS



As part of the Academia and Industry Collaboration, the Placement Cell DUK hosted a meeting with Tata Consultancy Services (TCS) officials on 27 June 2023. Hon VC Dr. Saji Gopinath welcomed the officials. Mr.Dinesh Thampi – Vice President & Delivery Centre Head TCS- Kerala, Ashita Menon- Region Head TCS- Academic Interface Programme (Kerala) and senior officials include Rajeev Azuvath, Abin Kurian, Sanal S, Roopa Maliyekkal, Geo Paul, Jyothy Ramaswamy, Viju Balram interacted and presented the possible collaborations with DUK. Discussions were centered on collaboration through various engagements in Cybersecurity, Robotics, Artificial Intelligence, IoT, and Data Analytics. Dr. Asharaf S, Dr. KG Satheesh Kumar, Dr. Manoj, Dr. Jose Joseph, Dr. Tony, Dr. Sinnu Thomas, Dr. Sini V. Pillai, Prof. Radhakrishnan, Prof. Meraj Uddin, Prof. Pradeep Kumar, Mr. Manu Thomas, Mr. Mahendra K.S and Ms. Panchami were present for the discussions and deliberations. The meeting resulted in many concrete commitments, including internships, projects, and mentoring of students by TCS in the form of an immersive industry program befitting the University and TCS as a whole.



Academic Forum of Project Management Institute Inaugurated at Digital University Kerala

Kerala University of Digital Sciences, Innovation and Technology (Digital University of Kerala) a research and postgraduate teaching University in the state of Kerala to facilitate and promote studies, research, incubation, and extension work in Digital Technologies.

The Academic Forum of Project Management Institute (PMI-Kerala Chapter), was inaugurated at Digital



University Kerala (DUK), on June 15, 2023. PMI-Kerala is the local chapter of the Project Management Institute, the leading professional association for project management with over 300 local chapters across the globe. Through the Academic Forum, PMI-Kerala and DUK strives to bridge the knowledge gap between academia and industry by utilizing the vast expertise of PMI's professional members. The forum will be a platform for students to interact with and obtain mentoring from professionals in various industries. It provides the student members with industry-specific learning opportunities, volunteer to meet United Nation's SDGs, networking with senior professionals, and opportunities to organize events and attend professional conferences.





The Academic Forum was inaugurated by Dr K Kesavasamy, Former Head of the Academic Interface Program, Tata Consultancy Services and member of the Academic Advisory Group, PMI India. Mr Brajesh C Kaimal, Co-founder & Director - Experion Technologies (India) Pvt. Ltd and Global Volunteer, PMI gave the Keynote Address. K Pradeep Kumar, Faculty Coordinator, PMI Academic Forum welcomed the gathering.



9th International Yoga Day



Digital University Kerala celebrated the 9th International Yoga Day at DUK campus. The event witnessed an enthusiastic participation of faculty, staff, and students as they engaged in rejuvenating yoga session.

World Environment Day Celebration in DUK Campus



Social Engagement Cell and Ecological Informatics lab organised planting young trees in DUK campus as part of the celebration of World Environment Day at 9 am on June 5 2023. This event is expected to contribute to the greening and beautification of the campus. This occasion was aimed at creating awareness on the importance of conservation of the ecosystem and the sustainable use of natural resources. Members of the faculty, staff, and students actively participated in the event. The Honorable Vice Chancellor inaugurated the celebration by planting a tree. Screening of the movie The Elephant Whisperers, the first ever Indian short film that won the Oscar award in the evening of the World Environment Day was another highlight of the celebration in DUK campus.



Book Exhibition





A book exhibition is organized by Knowledge Centre, Digital University Kerala from 5th to 7th June 2023 at DUK campus. It gives an opportunity to students and faculty to explore a wide range of books, engage in intellectual discussions, and nourish the mind.







Knowledge Centre Conducted User Education Programs at DUK





The Knowledge Centre recently organized two insightful sessions aimed at empowering faculty members, research scholars, and postgraduate students with the skills required to write scholarly articles. Held on June 22nd, the sessions covered important topics such as mapping academic research using Web of Science and EndNote, as well as writing high-quality technical papers for IEEE and utilizing IEEE Xplore effectively.

The first session, titled "Mapping Academic Research on the Journey to Excellence using Web of Science and EndNote," was conducted by the esteemed Dr. Subhasree. Participants had the opportunity to learn valuable techniques for mapping and organizing academic research using the powerful tools of Web of Science and EndNote. Dr. Subhasree's expertise and guidance proved to be invaluable in helping attendees navigate the vast landscape of scholarly articles and references. The second session focused on two significant aspects: "Writing Quality Technical Papers for IEEE" and "IEEE Xplore: Delivering Research Better than Ever." The session was jointly conducted by Dr. Dhanu Pattanshetti and Mr. Nandalal, who shared their extensive knowledge and experience with the eager participants.

Publications



- E. F. Arruda; R. e A. Alexandre; M. D. Fragoso; João B. R. do val; S. S. Thomas, "A Novel Queue-based Stochastic Epidemic Model with Adaptive Stabilising Control," in ISA Transactions, June 2023.
- Philip, S., Sherin, D. R., Kumar, T. M., Badisha Banu, T. C., & Roy, R. M. (2023). Molecular docking and simulation studies of some pyrazolone-based bioactive ligands targeting the NF-κ B signaling pathways. Molecular Diversity, 1-11.
- Gurram, V. K., Sanil, J., Anoop, V. S., & Asharaf, S. (2023). String Kernel-Based Techniques for Native Language Identification. Human-Centric Intelligent Systems, 1-14.
- Athira K, Sajeev C. R, Jaishanker R et al. Colour Transition of Flowers, 28 June 2023, PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-3095239/v1]



Congratulations!

Prof. Alex P James



Higher Education Minister Dr. R. Bindu presented the Kairali Research Award instituted by the Kerala government for outstanding research contributions to Alex P James, Dean (Academics), Digital University Kerala at a function in Thiruvananthapuram on Thursday, June 8.



Congratulations!

Lakshmi on securing the prestigious ThinkSwiss Research Scholarship 2023. The Scholarship gives the opportunity to do research at the Institute of Ecology and Evolution, University of Bern, Switzerland.

Ms. Lakshmi Niranjana Student, MSc Ecology (2022-2024 Batch)

Innovations



Dr. Anoop V. S. (Research Officer, SoDS) with Ms. Devika N. (Research Intern) has developed an entity recognition system for Malaria in collaboration with researchers from the Department of Biology, Purdue University Fort Wayne, Indiana, USA. Trained on a large collection of scientific literature on Malaria, this system can identify entities of clinical significance such as Disease, Medication, Organism, Chemical Substances, and Anatomical Substances.

A team of researchers led by Dr. Anoop V. S. (Research Officer, SoDS), comprising Ms. Meena P. N., Mr. Visakh P. R. (Research Interns, SoDS), Mr. Mohammed Fawaz, and Mr. Rafeek R. (Student Interns from II Semester M.Sc. Computer Science -Data Analytics) has developed a cognitive virtual agent that can conduct the Mental State Examination (MSE) psychological for the counselling. This was developed in collaboration with Samanwaya Centre for Psychological Counselling and Research, Thiruvananthapuram. This application can capture the mental state of an individual and present the key findings to the counsellor's dashboard for further analysis. It may significantly reduce the number of sittings required for conducting MSE.

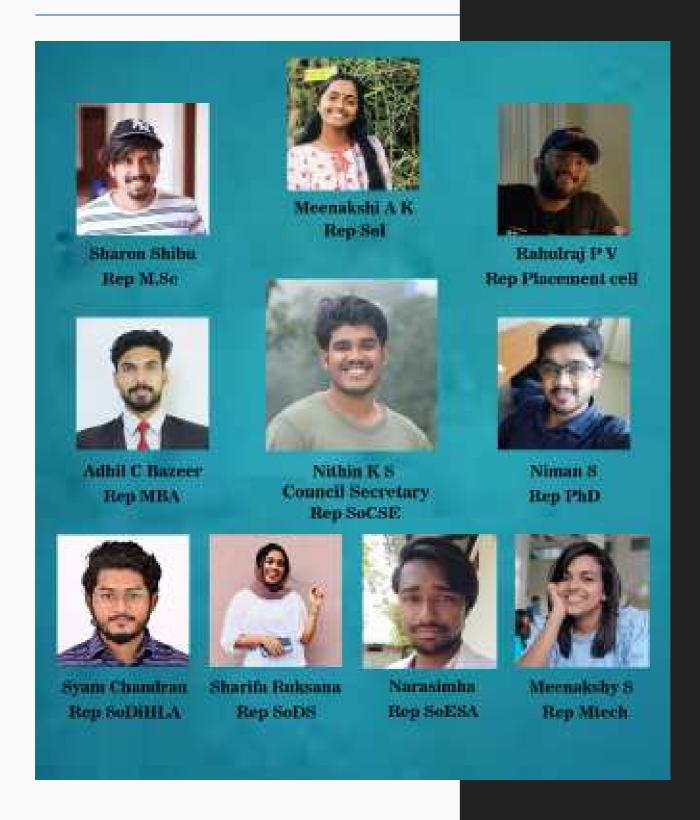
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Dr. Anoop V. S. (Research Officer, SoDS) with Ms. Ardra K. R. (Research Intern) has developed an entity recognition application for the Oral Medicine and Radiology specialty with research collaborators from the Department of Oral Medicine and Radiology, Malla Reddy Institute of Dental Sciences, Hyderabad, India. This application may help clinicians easily identify symptoms and medical conditions related to Oral Medicine from healthcare documents such as EHR and radiology reports.





Digital University Kerala Student Council 2022 - 2024





Knowledge Centre News

Software of the Month

MyBib



https://www.mybib.com/

MyBib is an online citation generator and bibliography management tool. It is designed to help students, researchers, and writers create accurate citations and bibliographies in various citation styles, such as APA, MLA, Chicago, and more. With MyBib, users can easily generate citations for different types of sources, including books, journal articles, websites, videos, and more. The tool allows you to input the necessary information about the source, such as the title, author, publication date, URL, and it automatically formats the citation based on the selected citation style.



In addition to citation generation, MyBib also offers features for managing bibliographies. Users can create and organize multiple bibliographies, export them in various formats (such as Word, PDF, or plain text), and save them for future reference. MyBib simplifies the process of creating accurate citations, saving time and effort for users who need to cite multiple sources in their academic papers, essays, or research projects. It eliminates the need for manual formatting and ensures consistency and accuracy in the citation style throughout the document.

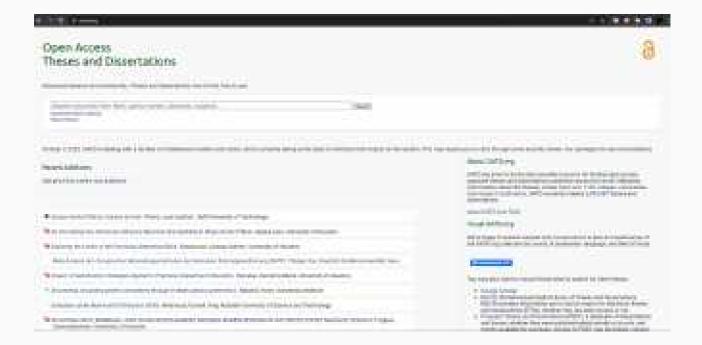


Website of the Month



Open Access Theses and Dissertations (OATD)

The website https://www.oatd.org/ refers to the Open Access Theses and Dissertations (OATD) platform. OATD is an online database and search engine that provides access to a vast collection of electronic theses and dissertations (ETDs) from around the world.



OATD aims to promote open access to scholarly research by aggregating ETDs from various universities and institutions worldwide. It serves as a centralized platform where researchers, students, and the general public can discover and access theses and dissertations across different academic disciplines.

On the OATD website, users can perform searches to find ETDs based on various criteria such as keywords, author names, institutions, and subject categories. The search results provide information about the titles, authors, abstracts, and links to the full-text versions of the theses and dissertations whenever they are available online. OATD acts as a valuable resource for researchers, students, and anyone interested in accessing scholarly work from diverse fields of study. It supports the principles of open access, enabling the dissemination of knowledge and facilitating the sharing of research outputs globally.



New Additions to the Knowledge Centre Collection

Big Data, IoT, and Machine LearningTools and Applications

The idea behind this book is to simplify the journey of aspiring readers and researchers to understand Big Data, IoT and Machine Learning. It also includes various real-time/offline applications and case studies in the fields of engineering, computer science, information security and cloud computing using modern tools. This book consists of two sections: Section I contains the topics related to Applications of Machine Learning, and Section II addresses issues about Big Data, the Cloud and the Internet of Things. This brings all the related technologies into a single source so that undergraduate and postgraduate students, researchers, academicians and people in industry can easily understand them.

Source: Publisher

Agrawal/Rashmi (2021) Big data, IOT, and machine learning : tools and applications . Boca Raton, CRC Press.



Hard real-time computing systems :predictable scheduling algorithms and applications

This updated edition offers an indispensable exposition on real-time computing, with particular emphasis on predictable scheduling algorithms. It introduces the fundamental concepts of real-time computing, demonstrates the most significant results in the field, and provides the essential methodologies for designing predictable computing systems used to support time-critical control applications. Along with an in-depth guide to the available approaches for the implementation and analysis of real-time applications, this revised edition contains a close examination of recent developments in real-time systems, including limited preemptive scheduling, resource reservation techniques, overload handling algorithms, and adaptive scheduling techniques. This volume serves as a fundamental advanced-level textbook. Each chapter provides basic concepts, which are followed by algorithms, illustrated with concrete examples, figures



and tables. Exercises and solutions are provided to enhance self-study, making this an excellent reference for those interested in real-time computing for designing and/or developing predictable control applications.

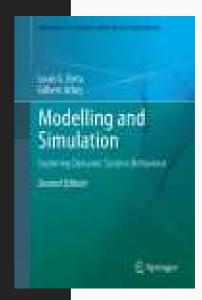
Source : Publisher

Buttazzo, Giorgio C (2011) Hard real-time computing systems :predictable scheduling algorithms and applicat Springer.



Modelling and simulation: exploring dynamic system behaviour

This textbook presents a practical introduction to the fundamental aspects of modelling and simulation. It provides the necessary foundations both for those wishing to learn about this methodology and also for those who have a need to apply it in their work. Illustrative examples are drawn from projects formulated within the domains of both DEDS and CTDS. Features: presents a project-oriented perspective; describes an activity-based conceptual modelling framework (ABCmod) for DEDS; includes a new chapter that presents a novel world view, the Activity-Object world view, which eases the translation of a conceptual model specification in the ABCmod framework into a simulation program; contains numerous illustrative examples, useful algorithms, exercises and projects; includes a primer on probability, a concise guide to the GPSS programming environment and an overview of relevant MATLAB features in the appendices; provides supplementary software and teaching support material at an associated website.



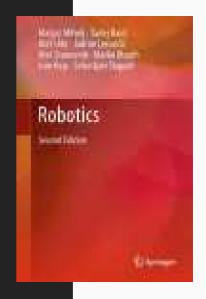
Source: Publisher

Birta, Louis G (2019) Modelling and simulation: exploring dynamic system behaviour. London, Springer.

Robotics

This book introduces readers to robotics, industrial robot mechanisms, and types of robots, e.g. parallel robots, mobile robots and humanoid robots. The book is based on over 20 years of teaching robotics and has been extensively class tested and praised for its simplicity.

It addresses the following subjects: a general introduction to robotics; basic characteristics of industrial robot mechanisms; position and movement of an object, which are described by homogenous transformation matrices; a geometric model of robot mechanisms expanded with robot wrist orientation description in this new edition; a brief introduction to the kinematics and dynamics of robots; robot sensors and planning of robot trajectories; fundamentals of robot vision; basic control schemes resulting in either desired end-effector trajectory or force; robot workcells with feeding devices and robot grippers.



19

This second edition has been expanded to include the following new topics: parallel robots; collaborative robots; teaching of robots; mobile robots; and humanoid robots. The book is optimally suited for courses in robotics or industrial robotics and requires a minimal grasp of physics and mathematics.

Source : Publisher

Agrawal/Rashmi (2021) Robotics. Boca Raton, CRC Press.



Practical low power digital VLSI design

Practical Low Power Digital VLSI Design emphasizes the optimization and trade-off techniques that involve power dissipation, in the hope that the readers are better prepared the next time they are presented with a low power design problem. The book highlights the basic principles, methodologies and techniques that are common to most CMOS digital designs. The advantages and disadvantages of a particular low power technique are discussed. Besides the classical area-performance trade-off, the impact to design cycle time, complexity, risk, testability and reusability are discussed. The wide impacts to all aspects of design are what make low power problems challenging and interesting. Heavy emphasis is given to top-down structured design style, with occasional coverage in the semicustom design methodology. The examples and design techniques cited have been known to be applied to production scale designs or laboratory settings. The goal of Practical Low Power Digital VLSI Design is to permit the readers to practice the low power techniques using current generation design style and process technology.

Source: Publisher

Yeap, Gary K (1998) Practical low power digital VLSI design. New York, Springer.

PRACTICAL LOW POWER DIGITAL VLSI DESIGN



Gary K. Yeap

An Introduction to IoT Analytics

This book covers techniques that can be used to analyze data from IoT sensors and addresses questions regarding the performance of an IoT system. It strikes a balance between practice and theory so one can learn how to apply these tools in practice with a good understanding of their inner workings. This is an introductory book for readers who have no familiarity with these techniques.

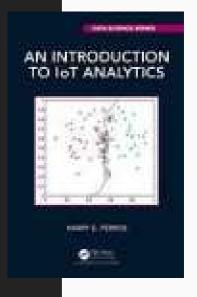
The techniques presented in An Introduction to IoT Analytics come from the areas of machine learning, statistics, and operations research. Machine learning techniques are described that can be used to analyze IoT data generated from sensors for clustering, classification, and regression. The statistical techniques described can be used to carry out regression and forecasting of IoT sensor data and dimensionality reduction of data sets. Operations research is concerned with the performance of an IoT system by constructing a model of the system under study and then carrying out a what-if analysis. The book also describes simulation techniques.

Key Features:

- IoT analytics is not just machine learning but also involves other tools, such as forecasting and simulation techniques.
- Many diagrams and examples are given throughout the book to fully explain the material presented.
- Each chapter concludes with a project designed to help readers better understand the techniques described.

Source: Publisher

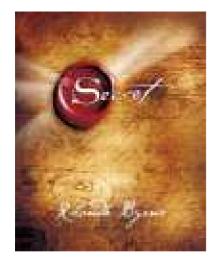
Perros, Harry G (2021) An Introduction to IoT Analytics, Boca Raton, CRC Press.

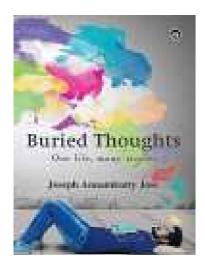


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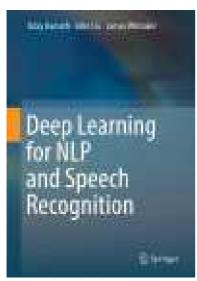


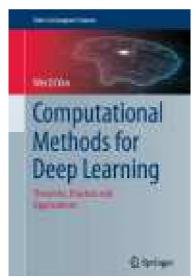
Check the OPAC of Knowledge Centre for new additions and their availability at http://libcat.duk.ac.in:8081/

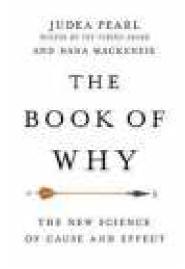


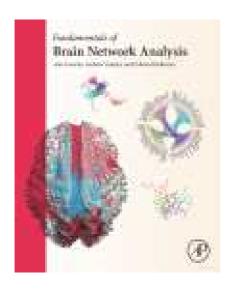


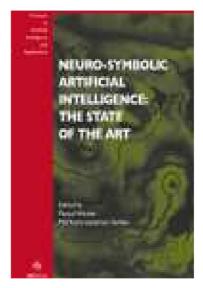


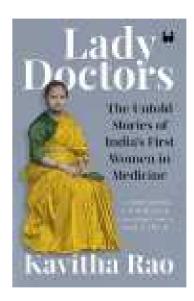












DUK ADMISSIONS 2023





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