

E-NEWSLETTER

By The AI Research Centre, Woxsen University

■ CRIMINAL LAW GAME

Justice Journey is a new game designed and developed by AIRC to practice law case studies with interaction.

■ AI NECROBOTICS PROJECT

Our groundbreaking AI-induced Necrobotics project was discussed at the prestigious [World AI Cannes Festival](#).

■ INTERNATIONAL MOUs

AIRC signs a number of MOUs with international institutions in. Learn more on [Page 5](#).



Top News

Our groundbreaking AI-induced Necrobotics project was discussed at the prestigious [WAICF - World AI Cannes Festival](#). It was also featured in the esteemed Spanish newspaper [La Voz De Galicia S.A.](#)



INSIGHTS

**NEXT-GEN FINANCING:
GREEN BONDS
ENHANCED BY AI FOR
SUSTAINABLE
PROSPERITY IN INDIA**

Dr. HEMACHANDRAN K
Director of AI Research Centre

Prof. SYED HASAN JAFAR
Associate Dean, Area Chair of Finance

Woxsen University, Hyderabad, India

Introduction
India finds itself at the cusp of sustainable growth in a dynamic age characterized by a heightened knowledge of environmental issues. Green bonds have come a pivotal fiscal tool that directs capital into eco-friendly enterprise. Imagine now the coming frontier the meeting point of artificial intelligence (AI) and green bonds. This combination has the implicit to fully change how India finances sustainability. In this disquisition, we examine the revolutionary possibilities of "Next- Gen Financing," in which the combination of AI and herbage Bonds not only ignites the profitable development machine for a thriving and sustainable future, but also strengthens ecological adaptability.

The Landscape of Green Bonds in India
Despite its infancy, the green bond market in India has enormous potential. With consistent growth, issuances reached \$8.8 billion in 2022. While green infrastructure and

Artificial intelligence (AI) robots may do routine jobs like data input and analysis, freeing up human resources for relationship- and strategic-structure.

Gain deeper understanding Compared to conventional approaches, AI algorithms can more directly spot patterns, predicting demand movements, and estimate risk by assaying complicated financial data.

Customize services AI- driven platforms may make suggestions and financial products that are specific to each user's demands and tastes, making the user experience more satisfying and engaging.

Boost security by detecting suspicious actions incontinently, AI- grounded fraud discovery systems may shield financial institutions and their guests from fraudulent deals.

The article, titled "**Next-Gen Financing: Green Bonds Enhanced by AI for Sustainable Prosperity in India**," has been published in the prestigious Brokers Forum of India. The authors, Dr. Hemachandran K and Dr. Syed Hasan Jafar, delved into the transformative potential of green bonds, a revolutionary financial instrument designed to fund projects that have positive environmental and climate benefits.

JUSTICE JOURNEY

THE CRIMINAL LAWYER CHALLENGE

PLAY

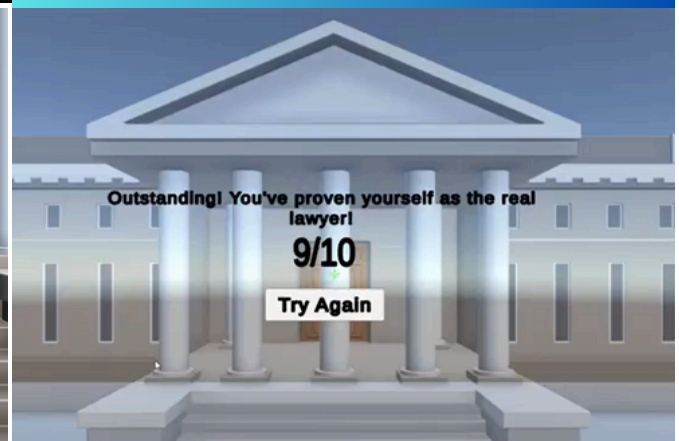
QUIT



JUSTICE JOURNEY - THE LAW GAME

Woxsen University is committed to providing its students with the most innovative and effective learning tools available. "Justice Journey: The Criminal Law Challenge" is a testament to this commitment and promises to revolutionize the way students learn and understand criminal law.

Woxsen University is proud to announce the launch of a groundbreaking educational game: "Justice Journey: The Criminal Law Challenge", developed by the University's AI Research Centre.



APPLYING CRIMINAL LAW CONCEPTS

Justice Journey will present students with realistic criminal case studies. By navigating these cases, students will have the opportunity to apply their knowledge of criminal law principles, procedures, and legal reasoning in a simulated environment.

TEST THROUGH GAMIFIED LEARNING

The game incorporates engaging quizzes that assess understanding of key criminal law concepts. Gamification elements like points, leaderboards, and potentially, badges, can motivate students and make learning more enjoyable.

POSITIVE IMPACT RATING

Woxsen University ranks at the maximum global level (level 5) by the [Positive Impact Rating for Business Schools](#), a global student-driven measurement that encapsulates the social impact and activities by institutions and their impact on society. This is the third year in a row ranking at the top global level which speaks about the commitment to our pillar on Ethics, Responsibility and Sustainability (ERS).

CONFERENCES

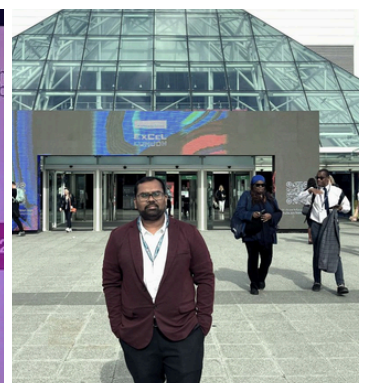
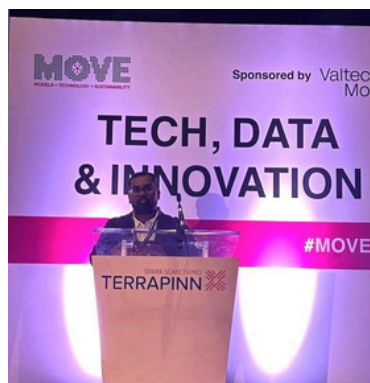


Dr. Hemachandran K presented a talk titled **"Ensuring Human Rights in the Age of AI-Powered Education"** at the Global Conference on AI and Human Rights, held at the Faculty of Law, **University of Ljubljana in Slovenia**.

It sparked discussions on the ethical considerations and opportunities of integrating AI in education with panelists Rob Chalmers, Paulius Pakutinskas, Sandra Fabijanić Gagro, and moderator Dr. Olaf Kondgen.

Dr. Hemachandran expressed gratitude to the organizers, Vasilka Sancin and Masa Kovic Dine, for hosting a successful event and looks forward to future collaborations.

PIR 2024 5 th Edition: Overview of Rated Schools, by Level & in Alphabetical Order		
Level 5 Pioneering Schools (6)	<ul style="list-style-type: none"> CENTRUM PUCP Business School, Peru IIM Bangalore, India IIM Indore, India 	<ul style="list-style-type: none"> INCAE Business School, Costa Rica SP Jain Institute of Mgmt & Research, India Woxsen University School of Business, India
Level 4 Transforming Schools (43)	<ul style="list-style-type: none"> Antwerp Management School, Belgium Audencia Business School, France BSB Burgundy School of Business, France Colorado State University College of Business, USA Deusto Business School, Spain Drake University Zimlepan College of Business, USA Drexel University LeBow College of Business, USA EADA Business School, Spain EAE Business School, Spain Excellia Business School, France Fordham University Gabelli School of Business, USA GIBS Business School, University of Pretoria, South Africa Goa Institute of Management, India HKUST Business School, China IESEG School of Management, France IMC Krams University of Applied Sciences, Austria Imperial College Business School, UK International Business School Suzhou at XJTLU, China IPADE Business School, Mexico John Molson School of Business, Concordia University, Canada 	<ul style="list-style-type: none"> Ketner School of Bus. Catawba College, USA Kozminski University, Poland Lang School of Business & Economics University of Guelph, Canada Leeds University Business School, UK Maastricht University School of Bus. & Economics, Netherlands Montpellier Business School, France Nova School of Business and Econ., Portugal POLIMI School of Management, Italy Rennes School of Business, France Sasin School of Management, Thailand Sobey School of Business Saint Mary's University, Canada Sprott School of Bus. Carleton Univ., Canada Strathmore University Business School, Kenya The Haub School of Business Saint Joseph University, USA TUM School of Management, Germany Universal AI Business School, India University of Exeter Business School, UK University of St Andrews, UK University of Vermont Grossman School of Business, USA UPF Barcelona School of Management, Spain Weatherhead School of Management Case Western Reserve University, USA Wits Business School, South Africa XLRI Xavier School of Management, India
Level 3 Progressing Schools (28)	<ul style="list-style-type: none"> BI Norwegian School of Management, Norway CUNEF University, Spain EDHEC Business School, France ESADE Business School, Spain FHNW School of Business, Switzerland FHWien of WKW, Austria HEC Montréal, Canada HEC Paris, France Iscte Business School, Portugal ISEG Lisbon School of Economics & Management, Portugal Ivey Business School, Western University, Canada Jyväskylä University School of Business and Economics, Finland KEDGE Business School, France Kuehne Logistics University, Germany 	<ul style="list-style-type: none"> KROK Business School, Ukraine Lucerne School of Business, Switzerland OBS Business School, Spain Rome Business School, Italy School of Business, Economics & Law University of Gothenburg, Sweden School of Management Fribourg, Switzerland Seidman College of Business GVSU, USA Silberman College of Business FDU, USA The British College, Nepal University at Buffalo School of Management, USA University of Economics and Human Sciences Warsaw, Poland University of Namur, Belgium Wrocław University of Economics and Business, Poland ZHAW School of Mgmt and Law, Switzerland



Dr. Rajesh Kumar K V took center stage on June 19th, 2024, as the host for Tech, Data & Innovation Stage 11 at the MOVE: Mobility Reimagined Conference held at Excel London. The event offered Dr. Kumar K V the opportunity to connect with a range of influential figures within the conference.

Designing Tomorrow: The Artistry of Cognitive Architects

The combination of human intelligence with technological innovation in this revolutionary era has sparked a revolution in computing and creativity, presenting the role of the cognitive architect as a trailblazer.
Raul Villamarin Rodriguez and **Hemachandran Kannan**

With its long history of encouraging creativity and critical thinking, academia plays the role of a maestro, guiding the creation of this new paradigm. This change is signalled by the advent of Large Language Models (LLMs), which demonstrate that artificial intelligence can complement human intelligence rather than replace it. Cognitive architects are the masters, skillfully combining the best aspects of human thought with the effectiveness of technology. This raises an important question: How can we develop these architects of the future? Beyond the walls of IT establishments, the solution can be found in the vibrant and varied settings of business schools and colleges. These organisations are more than just places of learning; they are the cradles of the future generation of innovators, leaders, and thinkers who will negotiate and mould the dynamic between artificial intelligence and human creativity.

The role of cognitive architects

When it comes to integrating artificial intelligence (AI) into business and society, cognitive architects are essential in bridging the gap between humanistic and technological domains. These experts are responsible for developing AI-powered systems and solutions that advance human potential, facilitate better decision-making, and tackle difficult social issues. They ensure that AI applications are created and implemented in ways that are morally and socially acceptable, as well as in line with humanistic principles. They do this by working at the nexus of technology and ethics. The goal of cognitive architects is to build a future where technology maximises human potential and fosters innovation that is both revolutionary and in line with our highest social goals by fusing insights from humanistic studies, commercial strategy, and technical know-how.



Dr. Raul villamarin Rodriguez, Vice President and **Dr. K Hemachandran**, Director AI Research centre 's contribution to the latest volume of the EFMD Global Focus Magazine introduces the newly developed concept of "**Cognitive Architects**," which encourages B-schools and educational institutions to design their pedagogy by integrating cognitive psychology, management, and generative technologies.

RESEARCH PUBLICATIONS AND PATENTS

Vishal Kumar Sharma, Senior Project Engineer at AI Research Centre's patent titled "**An Intelligent Indoor Crop Management System and a Method Thereof**" has been officially published.



(19) INDIA		(43) Publication Date : 14/06/2024
(22) Date of filing of Application : 04/06/2024		
(54) Title of the invention : AN INTELLIGENT INDOOR CROP MANAGEMENT SYSTEM AND A METHOD THEREOF		
(51) International classification	G05D0001/20000, B64C0019/20000, G01C0012/00000, G05D0001/00000, B64D0004/70000	(71) Name of Applicant : Woxson University Address of Applicant :Kamkole Village, Sadaivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 Hyderabad
(66) International Application No	NA	Name of Applicant : NA
Filing Date	NA	Address of Applicant : NA
(67) International Publication No	NA	(72) Name of Inventor : Vishal Kumar Sharma Address of Applicant :Senior Project Engineer, AI Research Centre, CG-07, C-Hostel, Woxson University, Kamkole Village, Sadaivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 Hyderabad
(61) Patent of Addition to Application Number	NA	Dr. Hemachandran K Address of Applicant : Professor, AI- Research Centre, School of Business, Woxson University, Kamkole Village, Sadaivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 Hyderabad
Filing Date	NA	Dr. Shyam Krishan Joshi Address of Applicant :Assistant Professor, AI Research Centre, School of Business, Woxson University, Kamkole Village, Sadaivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 Hyderabad
(62) Divisional to Application Number	NA	Dr. Aman Kumar Masih Address of Applicant :Junior Robotics Engineer, AI Research Centre, Woxson University, Kamkole Village, Sadaivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 Hyderabad
Filing Date	NA	Mr. Aman Masih Address of Applicant :Assistant Professor, AI Research Centre, School of Business, Woxson University, Kamkole Village, Sadaivpet, Sangareddy District, Hyderabad, Telangana, India - 502345 Hyderabad
(57) Abstract The present disclosure relates to an intelligent indoor crop management system (100) and a method (200) thereof. The system (100) comprises at least one unmanned aerial vehicle (UAV) (102), and at least one automatic guided vehicle (AGV) (104), and a control unit (106). The control unit (106) comprises one or more processors (108) coupled to a memory (110). The processors (108) are configured to receive an activation signal initiated by a user through a user platform, command the UAV (102) to fly over the plurality of sectors and to capture videos in a real-time of the plurality of sectors. Further, analyze one or more available paths, and to detect a final path without obstacle in the analysed one or more available paths. Moreover, transmit the detected final path in form of a command signal to the at least AGV (104) to move on the detected path for crop management. Figure 1A-1C.		

DR. HEMACHANDRAN K

DR. SHYAM JOSHI

MR. AMAN MASIH

Dr. Shyam Joshi, Chief Research Scientist at AIRC will be presenting his research papers titled "**Synchronization of Kim Forger Oscillators Using Contraction Theory**" and "**Synchronization Analysis of Coupled Fitzhugh Nagumo Dynamical Systems**" at the IEEE ICEPE 2024, at NIT Meghalaya.

Adding to his accolades, his second submission to IFAC-IEEE CODIT 2024, titled "**Pinning Synchronization of Coupled Benchmark Oscillators: Analysis and Experiments**" has been accepted for presentation in Malta.



INTERNATIONAL MOU

AI and Research Centre has signed an MOU with **Guna Bangsa college of health science, Yogyakarta, Indonesia**, to advance AI research and education. This collaboration aims to develop joint research projects, co-create educational programs, and provide practical training opportunities for students.



AI and Research Centre has partnered with the **African Academy of Artificial Intelligence** through an MOU to expand access to AI resources and expertise. The initiative aims to drive innovation and bridge the gap between academia and industry.

Building on the achievements, AI and Research Centre and the **University of Moratuwa, Sri Lanka** are advancing educational opportunities in AI. The aim is to create innovative learning environments, develop critical skills, and empower students to address global challenges.



Adding another feather in the cap, AI and Research Centre has signed an MOU with **Boston India**. This collaboration aims to bolster research capabilities, and further advance AI education and innovation, ultimately aiming to provide innovative solutions.

MoU between our AI Research Centre and **Orangewood Lab, San Francisco**. This strategic partnership marks a significant milestone in our commitment to advancing artificial intelligence research and innovation. Together, we aim to drive groundbreaking developments and explore new frontiers in AI technology.

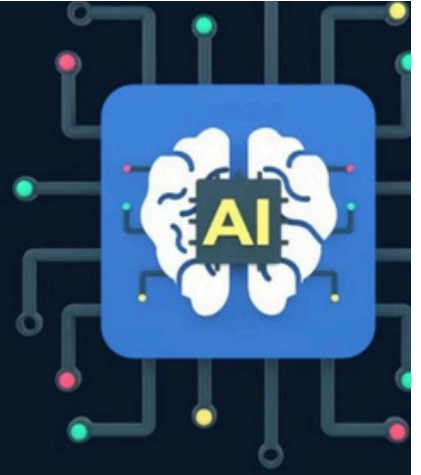


4TH INTERNATIONAL CONFERENCE ON

ARTIFICIAL INTELLIGENCE AND KNOWLEDGE PROCESSING (AIKP'24)

August 22 - 24, 2024

Organized By AI Research Centre, Woxsen University, Hyderabad, India
In collaboration with University of St. Thomas, MN USA and University of Johannesburg School of Business,



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Call for Book Chapters

The Quantum AI Era of Neuromarketing

Objective

"The Quantum AI Era of Neuromarketing" aims to integrate quantum AI with traditional neuromarketing, enhancing predictive analytics and understanding subconscious consumer behavior. It bridges theory and practice with real-world case studies, fostering interdisciplinary collaboration among AI researchers, neuroscientists, and marketers. The book addresses ethical considerations, ensuring responsible use of advanced technologies, and explores future trends and challenges. By expanding knowledge, enhancing methodologies, and inspiring innovation, this book seeks to revolutionize consumer behavior analysis and set a foundation for the next generation of

Call for Chapters: The Quantum AI Era of Neuromarketing

Proposal Submission Deadline: June 30,
2024

Full Chapters Due: September 22, 2024

Submission Date: September 22, 2024

Dr. Hemachandran K's recent visit to the **Johannesburg Business School (JBS)** Innovation Lab at the University of Johannesburg proved to be a fruitful one.

Dr. Hemachandran experienced a firsthand look at the inspiring and innovative projects undertaken by the student body.

This inspiring visit culminated in a productive meeting with **Prof. Abejide Ade-Ibijola**, where the two academics explored potential avenues for collaboration between Woxsen University and JBS.



ESTEEMED MEMBERS



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VICE PRESIDENT AT WOXSEN UNIVERSITY

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MR. VINEET SINGH

HEAD OF OPERATIONS - AI RESEARCH CENTRE

Designed by PROMOTION STRATEGIST TEAM, AIRC