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Patent Search

Invention Title	UNRAVELING ECOSYSTEM DYNAMICS: A BOTANICAL AND ZOOLOGICAL EXPLORATION				
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Inventor					
Name		Address	Country	Nat	
Dr.A.Srinivas Reddy		Associate Professor, Department of Zoology, Government Degree College, Rangasaipet, Warangal, Telangana, India, 506035	India	Indi	
Dr. Shantanu Bhattacharyya		Assistant Professor and HOD, Department of Botany, School of Applied Science (Bolangir Campus), Centurion University of Technology and Management, Bolangir, Odisha, India	India	Indi	
Dr. Pratibha Rani Deep		Assistant Professor Botany, Department of Botany, School of Applied Sciences (Bolangir Campus), Centurion University of Technology and Management, Bolangir, Odisha, India	India	Indi	
Ms. T. Manasa		Assistant Professor, CSE(AIML), Institute of Aeronautical Engineering College, Hyderabad, Medchal, Telangana, India, 500043	India	Indi	
Rajendra Sahebrao Magar		HOD/ Department of Zoology, Shri Datta ACS College, Hadgaon, Nanded, Maharashtra, India	India	Indi	
Dr. A. Yaquin		Retd. Head of Dept. of Zoology, L.S. College, Pin 842001, Muzaffarpur, Bihar, India	India	Indi	
Dr. Sumanta Bhattacharya		Research Scholar, Textile Technology, Makaut, Kolkata, 700064, West Bengal, India	India	Indi	
Dr.Suniti Kumar Kuriyal		Senior Assistant Professor, Pt.L.M.S.Sridev Suman Uttarakhand University Campus, Rishikesh, Dehradun, Uttarakhand, India	India	Indi	
Dr. Avadhesh Kumar Koshal		Professor, Faculty of Science, Motherhood University, Roorkee, Haridwar, Uttarakhand, PIN 247661, India	India	Indi	
Dr. Droupti Yadav		Assistant Professor and Coordinator, Environmental Science and Technology, SLSBT, CSJM University, Kanpur Nagar, Uttar Pradesh, India (Pincode-208024)	India	Indi	
Anthony Savio Herminio Da Piedade Fernandes		Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, North Goa, Goa (403507), India	India	Indi	
Prem Chandra		201, 2/96, Sector-2, Rajendra Nagar, Sahibabad, Ghaziabad, Uttar Pradesh, 201005, India	India	Indi	
Applicant					

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Name	Address	Country	Nat
Dr.A.Srinivas Reddy	Associate Professor, Department of Zoology, Government Degree College, Rangasaipet, Warangal, Telangana, India, 506035	India	Indi
Dr. Shantanu Bhattacharyya	Assistant Professor and HOD, Department of Botany, School of Applied Science (Bolangir Campus), Centurion University of Technology and Management, Bolangir, Odisha, India	India	Indi
Dr. Pratibha Rani Deep	Assistant Professor Botany, Department of Botany, School of Applied Sciences (Bolangir Campus), Centurion University of Technology and Management, Bolangir, Odisha, India	India	Indi
Ms. T. Manasa	Assistant Professor, CSE(AIML), Institute of Aeronautical Engineering College, Hyderabad, Medchal, Telangana, India, 500043	India	Indi
Rajendra Sahebrao Magar	HOD/ Department of Zoology, Shri Datta ACS College, Hadgaon, Nanded, Maharashtra, India	India	Indi
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Dr. Sumanta Bhattacharya	Research Scholar, Textile Technology, Makaut, Kolkata, 700064, West Bengal, India	India	Indi
Dr.Suniti Kumar Kuriyal	Senior Assistant Professor, Pt.L.M.S.Sridev Suman Uttarakhand University Campus, Rishikesh, Dehradun, Uttarakhand, India	India	Indi
Dr. Avadhesh Kumar Koshal	Professor, Faculty of Science, Motherhood University, Roorkee, Haridwar, Uttarakhand, PIN 247661, India	India	Indi
Dr. Droupti Yadav	Assistant Professor and Coordinator, Environmental Science and Technology, SLSBT, CSJM University, Kanpur Nagar, Uttar Pradesh, India (Pincode-208024)	India	Indi
Anthony Savio Herminio Da Piedade Fernandes	Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, North Goa, Goa (403507), India	India	Indi
Prem Chandra	201, 2/96, Sector-2, Rajendra Nagar, Sahibabad, Ghaziabad, Uttar Pradesh, 201005, India	India	Indi

Abstract:

The invention relates to a system and method for unraveling ecosystem dynamics through the integration of botanical and zoological data. The system encompasses data collection from diverse plant and animal species, using advanced sensors and techniques, followed by data integration through machine learning algorithms to identify co ecological interactions. An analysis module generates detailed models representing species interactions and dependencies, while an output module visualizes these mode user-friendly formats such as interactive maps and charts. The invention supports real-time monitoring with automated alerts, and includes a citizen science platform for community data contribution and engagement. This integrated approach enhances ecological research, conservation efforts, and agricultural practices by providing deepe insights into ecosystem dynamics and promoting sustainable environmental management.

Complete Specification

Description: The present invention relates to the field of ecological and environmental research, specifically to the study of ecosystem dynamics through the integration c botanical and zoological data. This invention provides a method and system for collecting, integrating, and analyzing data from various plant and animal species within a ecosystem to generate comprehensive models that elucidate interactions and dependencies among these species. The invention is particularly applicable to fields such a environmental conservation, biodiversity preservation, agricultural optimization, and ecological monitoring. BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects c the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding the reader with respect to the present disclosure, and not as admissions of prior art.

Understanding the complex interactions within ecosystems is essential for effective environmental management, conservation efforts, and agricultural practices. Ecosystems are composed of diverse species of plants and animals that interact with each other and their environment in intricate ways. These interactions form the foundation of ecosystem dynamics, influencing factors such as species distribution, population dynamics, nutrient cycling, and overall ecosystem health.

Traditional methods of studying ecosystems often rely on isolated observations and limited data sets, focusing either on botanical or zoological aspects without fully integrating both. This fragmented approach can lead to incomplete or biased understandings of ecosystem dynamics. For example, studying plant species distribution

View Application Status



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