

CITHARA

Multidisciplinary Scientific Journal

ISSN: 0009-7527

St. Bonaventure University, New York



VOLUME 66
Issue 2
February 2026



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Exploring the Intricacies of Knot Theory within the Framework of Algebraic Topology

Amira El-Erian, Zhu Tengfei, Patience Mwanza

Al-Baath University, Homs, Syria; Kazakh National University, Almaty, Kazakhstan; University of Zambia, Lusaka, Zambia

Keywords: knot theory, algebraic topology, homology, cohomology, embeddings, invariants, classification

2.

Integrating Local Contexts in Curriculum Development: A Multicultural Perspective on Educational Practices

Jonas Petrauskas, Priya Shrestha, Omar Al-Mutairi

Vilnius University, Vilnius, Lithuania; Tribhuvan University, Kathmandu, Nepal; Banaras Hindu University, Varanasi, India

Keywords: curriculum development, cultural context, educational practices, inclusive learning, student engagement, qualitative analysis

3.

Advanced Multi-Agent System Design for Cooperative Robotic Manipulation Tasks in Dynamic Environments

Carlos Martinez, Jia Wei, Farah Al-Hassan, Kwame Nkrumah

University of Dhaka, Dhaka, Bangladesh; Al-Baath University, Homs, Syria; University of Canterbury, Christchurch, New Zealand

Keywords: multi-agent systems, cooperative manipulation, dynamic environments, reinforcement learning, swarm intelligence, robotic collaboration

4.

Assessing Soil Health Indicators in Agroecosystems: A Comparative Study Across Diverse Climates

Jonas Kavaliauskas, Leila Nouri, Camila Fernández

Jonas Kavaliauskas, Vilnius University, Vilnius, Lithuania; Leila Nouri, Ferdowsi University of Mashhad, Mashhad, Iran; Camila Fernández, National University of La Plata, La Plata, Argentina

Keywords: soil health, agroecosystems, organic matter, microbial activity, nutrient availability, climate impact

5.

Integrating Community-Based Conservation and Biodiversity Monitoring in Tropical Ecosystems

Nadira Wijesinghe, Felipe Carrasco, Ayesha El-Masry

University of Colombo, Colombo, Sri Lanka; Central University of Venezuela, Caracas, Venezuela; Massey University, Palmerston North, New Zealand

Keywords: biodiversity, conservation, community-based, tropical ecosystems, ecological resilience, sustainable solutions

6.

Exploring the Impact of Collective Identity on Group Decision-Making and Social Influence Mechanisms

Dragan Jovanović, Hana Al-Khatib, Priya N. Patel

University of Rijeka, Rijeka, Croatia; Jordan University of Science and Technology, Irbid, Jordan; Oklahoma State University, Stillwater, USA

Keywords: collective identity, group decision-making, social influence, cultural context, conformity, organizational behavior

7.

Efficient Synthesis of Chiral Organocatalysts via Enantioselective Transition Metal Catalysis

Yuko Kawahara, Tariq Al-Saleh, Femi Olatunji

Banaras Hindu University, Varanasi, India; Al-Baath University, Homs, Syria; University of Canterbury, Christchurch, New Zealand

Keywords: organocatalyst, enantioselective synthesis, transition metal catalysis, palladium, chiral induction, prochiral substrates, ligand framework

8.

Diversity and Ecological Dynamics of Tropical Forest Understories in Southeast Asia and Africa

Ahmad Mokhtar, Siti Fatimah Tan, Naila Chanda, Maria Silvia Gomez

Universiti Sains Malaysia, Penang, Malaysia; Gadjah Mada University, Yogyakarta, Indonesia; University of Zambia, Lusaka, Zambia

Keywords: tropical forests, understory diversity, ecological interactions, biodiversity indices, multivariate analysis, conservation strategies

Cithara Journal

Published by Cithara Journal

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