Sail Away on a Catamaran Tour

Discover the beauty of Puerto Vallarta and the sparkling waters of Banderas Bay on an unforgettable catamaran adventure. Whether you're seeking relaxation, exploration, or a bit of both, this experience offers the perfect blend of comfort and excitement.

Enjoy the stunning coastal views, the gentle sea breeze, and an atmosphere of tranquility and elegance aboard a fully equipped luxury catamaran.

Saturday 9th, 4:00pm

Marina Vallarta
48335 Puerto Vallarta, Jal.

PUERTO VALLARTA

THE BLUE SHRIMP

From the sea to your table, enjoy our open-air restaurant facing a beautiful lagoon with crocodiles, herons, turtles, iguanas, and much more.

Friday 8th, 7:00pm

Blvd. Nayarit 208 Jarretaderas Jarretaderas, 63735 Nuevo Vallarta, Nay.

16th EDITION

B1CA*AI
PUERTO 2025
VALLARTA MX

BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES

August 6-10

Cinvestav Universidad de Guadalajara ORACLE

2025 Annual International Conference on Biologically Inspired Cognitive Architectures, the 16th Annual Meeting of the BICA Society (BICA 2025), Puerto Vallarta, Mexico, August 6 - 10

BICA-2025
PUERTO VALLARTA MX

Dr. Kugele
University: University of Memphis, USA
Speech: *BICAs for Science: Mental Imagery, Consciousness and the Nature of Thought*
Summary: Uses biologically inspired architectures to study mental imagery and aphantasia, analyzing how conscious and unconscious processes shape cognition.

Aug 6
9:40 AM

Prof. Vassilis G. Kaburlasos
University: International Hellenic University (IHU), Greece
Speech: *Human Friendly Artificial Intelligence enabled by the Lattice Computing Paradigm*
Summary: Introduces Lattice Computing as a semantic alternative to deep learning, enabling symbolic data handling and improving model flexibility and energy efficiency.

Aug 7
9:00 AM

Dr. Ricardo Gudwin
University: State University of Campinas, Brazil
Speech: *On the Pursuit of Understanding and Consciousness in Cognitive Architectures*
Summary: Explores how cognitive architectures can emulate human understanding, examine the role of consciousness and propose an ontology for building conscious artificial agents.

Aug 8
9:00 AM

Prof. Ron Sun
University: Rensselaer Polytechnic Institute, USA
Speech: Rethinking Rationality and Intelligence in AI Through a Cognitive Architecture
Summary: Discusses how cognitive architectures can reshape AI by addressing criticisms of rationality and intelligence through a neuro-symbolic approach.

Aug 9
10:20 AM

ABOUT BICA

Biologically inspired cognitive architectures (**BICA**) are computational models of **artificial general intelligence** based on **biological systems**. They aim to replicate human-like adaptability and flexibility. Advances in cognitive science have led to rapid progress in BICA research, supporting intelligent applications such as **virtual agents**, **social robotics**, and **neuromorphic electronic applications**. The BICA Challenge seeks to replicate essential aspects of the human mind through interdisciplinary collaboration. Since its inception at **DARPA** and **AAAI** symposia, the **BICA Conference** has evolved into a global hybrid event renowned for its scientific rigor and inclusive atmosphere. It fosters innovation and international collaboration in **AGI**.

*Selected papers will be published in the **Studies in Computational Intelligence (SCI) book series** by **Springer** or in the **Q2-ranked journal Cognitive Systems Research (CSR)** by **Elsevier**.*

Cinvestav was established in **1961** as a public sector initiative to meet the growing demand for highly trained professionals and to promote research, education, and technological development. Today, it has five regional campuses, around **500 full-time researchers**, **1,500 graduate students**, and offers **43 postgraduate programs** across fields like exact sciences, biological and health sciences, engineering and technology, and social sciences.

Guadalajara Campus began in **1988** with the **Semiconductor Technology Center (CTS)**, focused on electronic component design. Initially sponsored by IBM Mexico and SECOFI, the center has served as a design hub for the electronics industry. In **1995**, academic programs began with the Department of Electrical Engineering and Computer Science, offering master's and PhD degrees in areas such as computing, automatic control, electronic design, power systems, and telecommunications.

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