



NUVEM STRATEGIC RESEARCH UNIT

The goals of the Virtual Universes, Entertainment and Mobility Strategic Unit, known as NUVEM, are producing knowledge, developing high-level human resources and generating innovative and interdisciplinary solutions to Information and Communications Technologies (ICT) and their interfaces to society's demands, such as the improvement of the quality of life of citizens and sustainability. NUVEM is currently composed of 18 professors who act in an interdisciplinary manner in Computer Science, Information Engineering and Social & Human Sciences, in addition to graduate and undergraduate students and affiliated researchers.

RESEARCH GROUPS

NUVEM's activities are carried out through five broad Research Groups.

VIRTUAL SENSATIONS
Virtual and Augmented Reality
Animation
Gaming
Computer Graphics
Visualization

CONNECTED MOBILITY
Mobile Computing
Cloud Computing
Wireless Networks
Software-Defined Networking
Internet of Things (IoT)
Optical Networks

SMART SOCIETIES
Smart Cities
Online Social Network
eParticipation
eDemocracy
Security and Privacy

EXTREME COMPUTING
HPC
Big Data
Data Mining
Cloud Computing
Sustainable Computing

INTEGRATED UNIVERSES
Virtual Reality
Virtual Worlds
Virtualization and Cognition
Telepresence
Online Social Networks

NUVEM develops activities in Education, Research and Outreach initiatives, producing knowledge that can contribute to UFABC's unceasing pursuit of academic excellence and innovation.



<http://www.ufabc.edu.br>

<http://ri.ufabc.edu.br/en>

<http://nuvem.ufabc.edu.br>

- Interdisciplinarity
- Social Inclusion
- Excellence
- Internationalization



Located in the industrial belt of São Paulo – Brazil's largest city – in an area known as ABC, *Universidade Federal do ABC* (UFABC) was created to contribute directly and ABC indirectly to the education of Brazilian people, to advance knowledge in engineering, mathematics, computing, natural and human sciences; and to meet the demands of regional industrial activity and public administration. As one of UFABC's strategic units, NUVEM arises with the aim to create innovative solutions to society's challenges with the use of multimedia, virtualization and Internet technologies.

ACTIONS

- Our members are guided by 10 actions that bring us closer to the fulfillment of our goals:
- Proposal and Execution of Research Projects;
 - Development of Human Resources;
 - Contribution to Undergraduate and Graduate Education;
 - Cooperation with the Productive Sector;
 - Generation of Technological Innovation;
 - Development of Computational Tools;
 - International and National Cooperation;
 - Disseminating knowledge to Society;
 - Promotion of Debate and Dissemination of Ideas;
 - Demonstration of Results and Interaction with the Public.