Inici > SORS/Bioinfo4Women/Life Sessions: Deep learning: fundamentals, challenges and health applications

SORS/Bioinfo4Women/Life Sessions: Deep learning: fundamentals, challenges and health applications

Abstract: In this talk, we will make a very fast trip through the fundamentals of Deep learning and Computer vision focusing on today's challenges and open questions in these fields. Following, we will review in short our current achievements in the field of Deep learning and Computer Vision. We will finish with an overview of our Medical and Biomedical applications: specially medical image analysis, omics data analysis, and nutrition and healthy habits monitoring by Artificial intelligence tools.

Short Bio: Petia Radeva is a Full professor at the Universitat de Barcelona (UB), Head of the Consolidated Research Group "Artificial Intelligence and Biomedical Applications (AIBA)" at the University of Barcelona. Her main research interests are in the field of Deep/Machine learning and Computer Vision and their applications to health. She is an Associate editor in Chief of Pattern Recognition journal (Q1, IP=7.196) and International Journal of Visual Communication and Image Representation (Q2, IP=3.13). She is a Research Manager of the State Agency of Research (Agencia Estatal de Investigación, AEI) of the Ministry of Science and Innovation of Spain. She supervised 24 PhD students and published more than 100 SCI journal publications and 250 international chapters and proceedings, her Google scholar h-index is 53 with more than 11100 cites. Petia Radeva belongs to the top 2% of the World ranking of scientists with the major impact in the field of TIC according to the citations indicators of the popular ranking of Stanford. Also, she was selected in the first 6% of the ranking of Spanish and foreign most cited female researchers from any field according to the Ranking of CSIC: https://lnkd.in/djx2Yz5p. Moreover, she was awarded IAPR Fellow since 2015, ICREA Academia'2015 and ICREA Academia'2022, received several international and national awards ("Aurora Pons Porrata" of CIARP, Prize "Antonio Caparrós" forthe best technology transfer at UB, etc).

Speakers

Speaker: Petia Radeva, Professor at the Universitat de Barcelona (UB) Head of the Consolidated Research Group "Artificial Intelligence and Biomedical Applications (AIBA)" at the UB.
Host: Alfonso Valencia, Life Sciences Department Director - Computational Biology Life Sciences Group
Venue: [Hybrid] BSC Auditorium and Zoom

Barcelona Supercomputing Center - Centro Nacional de Supercomputación