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A visiting Professor at Barcelona Supercomputing Center (BSC-CNS) have won first place for the third time in a row in the latest Graph 500 Big Data benchmarking ranking.



[Prof. Toyotaro Suzumura](#), Visiting Professor at Barcelona Supercomputing Center (BSC-CNS) and his JST CREST team have won first place for the third time in a row in the latest Graph 500 Big Data benchmarking ranking. His team used the K computer, located in Kobe, Japan, in collaboration with RIKEN, Tokyo Institute of Technology and Kyushu University. The results were announced on 21 June at the International Supercomputing Conference (ISC16) held in Frankfurt, Germany.

By carrying out a series of optimisations at the level of algorithms and software implementation, Prof. Suzumura's team was able to solve a 'breadth-first' search of an extremely large graph (over 1 trillion).

'Having Prof. Suzumura at BSC is extremely important to address the new challenges in the convergence of High Performance Computing and cognitive computing. With the recently signed agreement between BSC and the Japan Science and Technology Agency (JST) under the CREST programme we will be carrying out frontier research on novel cognitive architectures combining deep learning and graph mining technologies, and their use for solving the challenges in social simulation,' says Josep Casanovas, Severo Ochoa Programme coordinator.

The [Graph 500 ranking](#) is a relatively new benchmark, first issued in 2010, which measures the ability of supercomputers to perform big data processing on data-intensive loads, with the goal of improving computing on complex data problems in five key areas: cybersecurity, medical informatics, data enrichment, social networks, and symbolic networks.



Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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