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Interessos de recerca

Qualifications

Postgrau, Doctor en Informàtica, Universitat Autònoma de Barcelona (UAB)
Data d'adjudicació: 1 d'abr. 2006
Llicenciat/da, Licenciado en Informàtica (homologación de título extranjero), Ministerio de Educación y Ciencia (MEC)
Data d'adjudicació: 1 d'oct. 1993
Enginyer/a, Ingeniero en Computación, Universidad Simón Bolívar (Venezuela)
Data d'adjudicació: 5 de febr. 1991

Employment

Catedràtic/a d'universitat
Departament d'Arquitectura de Computadors i Sistemes Operatius
Bellaterra (Cerdanyola del Vallès), Espanya
1 de gen. 2015 → present

Aplicacions de la Computació d'Altes Prestacions a la Ciència i l'Enginyeria
Bellaterra (Cerdanyola del Vallès), Espanya
1 de maig 2014 → present

Profesor Asociado
Universidad Nueva Esparta
Veneçuela
15 de gen. 1992 → 30 de juny 1992

Analista I+D
SPG Software House
1 d'abr. 1991 → 31 de jul. 1992

Ayudante de prácticas de laboratorio
Universidad Simón Bolívar (Venezuela)
Caracas, Veneçuela
1 de set. 1987 → 31 de jul. 1990

Research outputs

Automatic tuning based on hardware performance counters and machine learning
Gevorgyan, S. H., César, E., Sikora, A., Filipovič, J. & Alcaraz, J., de juny 2026, A: Future Generation Computer Systems. 179, 14 p., 108358.

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Ruiz, C. G., Dawson, M., Acosta, M. C., Jorba, O., Galobardes, E. C., García-Pando, C. P. & Serradell, K., 30 de jul. 2023, *Lecture Notes in Networks and Systems*. p. 129-138 12 p.

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Predicting number of threads using balanced datasets for openMP regions

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Pattern-based Autotuning of OpenMP Loops using Graph Neural Networks

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Building representative and balanced datasets of OpenMP parallel regions

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HeDPM: load balancing of linear pipeline applications on heterogeneous systems

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Colorectal tumour simulation using agent based modelling and high performance computing

Kang, G., Márquez, C., Barat, A., Byrne, A. T., Prehn, J. H. M., Sorribes, J. & César, E., 1 de febr. 2017, A: *Future Generation Computer Systems*. 67, p. 397-408

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Improving performance on data-intensive applications using a load balancing methodology based on divisible load theory

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Automating risk analysis of software design models

Frydman, M., Ruiz, G., Heymann, E., César, E. & Miller, B. P., 1 de gen. 2014, A: *Scientific World Journal*. 2014, 805856.

Dynamic tuning of the workload partition factor and the resource utilization in data-intensive applications

Rosas, C., Sikora, A., Jorba, J., Moreno, A., Espinosa, A. & César, E., 1 de gen. 2014, A: *Future Generation Computer Systems*. 37, p. 162-177

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Impact of message filtering on HPC agent-based simulations

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Specification of periscope tuning framework plugins

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A Methodology for Generating Dynamic Tuning Strategies in Multicore Systems

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Dynamic tuning of the workload partition factor in data-intensive applications

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Hierarchical MATE's approach for dynamic performance tuning of large-scale parallel applications

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Dynamically Tuning Master/Worker Applications with MATE

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Metodología para la sintonización de aplicaciones OpenMP en sistemas multicore

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Automatic Performance Tuning of Parallel Mathematical Libraries

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Modeling Master-Worker applications in POETRIES

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Dynamic performance tuning environment

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PSEE: A tool for parallel systems learning

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Awards

TECNOLOGIAS AVANZADAS DE COMPUTACION PARA RESOLVER RETOS DE LA SOCIEDAD

Espinosa Morales, A. (Investigador/a Principal), Sikora, A. B. (Co-Investigador/a Principal), Aguado Puig, Q. (Col.laborador/a), BENITEZ, M. (Col.laborador/a), Carrillo Jordan, C. (Col.laborador/a), Da Silva, V. (Col.laborador/a), GUERRERO, I. (Col.laborador/a), Gonzalez i Fernandez, I. (Col.laborador/a), Guzman Ruiz, C. (Col.laborador/a), Harutyunyan Gevorgyan, S. (Col.laborador/a), Li, H. (Col.laborador/a), Munzon Gil, D. (Col.laborador/a), Peralta Quesada, C. (Col.laborador/a), SANTOS, V. (Col.laborador/a), Sanjuan Gomez, G. (Col.laborador/a), Sánchez Gayet, P. (Col.laborador/a), Vidal Canedo, V. (Col.laborador/a), Cesar Galobardes, E. (Investigador/a), Cores Prado, M. F. (Investigador/a), Cortes Fite, A. (Investigador/a), Giné, F. (Investigador/a), Guirado Fernandez, F. (Investigador/a), Hernandez Bude, P. (Investigador/a), Jorba Esteve, J. (Investigador/a), Lérida Monsó, J. L. (Investigador/a), Marco Sola, S. (Investigador/a), Margalef, T. (Investigador/a), Miró Cubells, J. R. (Investigador/a), Moreno Vendrell, A. (Investigador/a), Moure Lopez, J. C. (Investigador/a), Panadero Martinez, J. (Investigador/a), Piñol Pascual, J. (Investigador/a), Ripoll Aracil, A. (Investigador/a), Roig Mateu, C. (Investigador/a), Senar Rosell, M. A. (Investigador/a), Sorribes Gomis, J.

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