

Name: DPCS. Research Group on Distributed, Parallel and Collaborative Systems.

Knowledge area description:

Building of decentralized distributed systems at different scales (small groups, clusters or Internet) and parallel systems, we pay special attention to peer-to-peer paradigms, message passing and grid computing. We also focus in the analysis and evaluation of collaborative interactions in a VLE and in the development of collaborative applications.

Group researchers:

Joan Manuel Marques i Puig (Universitat Oberta de Catalunya)
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Gustavo Gutiérrez Carreón (Universidad Politécnica de San Luís Potosí, México)

Selected list of publications:

- **Journal Articles**

ARDAIZ O., DÍAZ DE CERIO, L., FREITAG F., GALLARDO, A., MARQUÈS J.M., MESSEGUER, R., NAVARRO L., SANJEEVAN, K. (2003) "Sistemas Distribuidos y CSCL: Inteligencia Artificial" *Revista Iberoamericana de Inteligencia Artificial. Monografía: Trabajo en grupo y Aprendizaje Colaborativo*. 24, 8. ISSN: 1137-3601

CABALLÉ, S. PANIAGUA, C. XHAFI, F. DARADOU MIS, T. (2005). "A Grid-aware Implementation for Providing Effective. Feedback to On-line Learning Groups". In MEERSMAN, R. et al. (Eds.). *On the Move to Meaningful Internet Systems: Grid Computing and its Application to Data Analysis. Lecture Notes in Computer Science*. 3762, pp. 274 – 283. Springer-Verlag Berlin Heidelberg. ISBN: 3-540-29739-1.

DARADOU MIS, T. & MARQUÈS J.M. (2002). "Distributed Cognition in the Context of Virtual Collaborative Learning". *Journal of Interactive Learning Research. Special Issue on "Distributed Cognition in the Context of the Learning.Organizati on and Life-Long Learning"*. AACE (Eds). Norfolk, VA, USA. 13, 1, 135-148. ISSN: 1093-023X

DARADOU MIS T., MARTÍNEZ A. & XHAFI, F. (2006). "A Layered Framework for Evaluating Online Collaborative Learning Interactions." *International Journal of Human-*

Computer Studies. Special Issue on "Theoretical and Empirical Advances in Groupware Research", Academic Press: Elsevier Ltd. ISSN: 1071-5819. Impact Factor: 1.222

DARADOUMIS, T., MARTÍNEZ, T., XHAFA, F. (2004). "An Integrated Approach for Analysing and Assessing the Performance of Virtual Learning Groups". In DE VREEDE, G. J. et al. (Eds.). *Groupware: Design, Implementation, and Use. Lecture Notes in Computer Science*, 3198, 289-304. Heidelberg-Berlin: Springer-Verlag. ISBN: 3-540-23016-5.

DARADOUMIS T., MARTÍNEZ A., AND XHAFA, F. (2006). "A Layered Framework for Evaluating Online Collaborative Learning Interactions ". *International Journal of Human-Computer Studies. Special Issue on "Theoretical and Empirical Advances in Groupware Research"*, Academic Press: Elsevier Ltd., ISSN: 1071-5819. Impact Factor: 1.222

DARADOUMIS, T., XHAFA, F., MARQUÈS J.M. (2003). "Exploring Interaction Behaviour and Performance of Online". In FAVELA, J. & DECOUCHANT, D. (Eds.). *Groupware: Design, Implementation, and Use. Collaborative Learning Teams. Lecture Notes in Computer Science*, 2806, 126-134. Heidelberg-Berlin: Springer-Verlag. ISBN: 3-540-20117-3.

MARQUÈS, J.M., NAVARRO, L. (2005). "Autonomous and Self-Sufficient Groups: Ad Hoc Collaborative Environments". FUCKS, H., LUKOSCH, S. & SLAGADO, A.C. (Eds.). *CRIWG 2005, Groupware: Design, Implementation, and Use. Lecture Notes Computer Science*, 3706, 57-72. Springer-Verlag Berlin Heidelberg. Impact Factor: 0.515

XHAFA, F., CABALLÉ, S., DARADOUMIS, T., AND ZHOU, N. (2004). "A Grid-Based Approach for Processing Group Activity Log. Files". MEERSMAN, R. et. al. (Eds.). *On the Move to IN3 2006 report for the Scientific Commission Meaningful Internet Systems: Grid Computing and its Application to Data Analysis. Lecture Notes in Computer Science*, 3292, 175-186. Heidelberg-Berlin: Springer-Verlag. ISBN: 3-540-23664-3

- **Book Chapters**

DARADOUMIS, T., XHAFA, F., PÉREZ, J. (2006). "A Framework for Assessing Self Peer and Group Performance in e-Learning". In ROBERTS, T. S. (Ed). *Self, Peer, and Group Assessment in e- Learning*. Hershey. Idea Group Press. ISBN: 1-59140-966-7. pp 279-294.

- **Conference contributions**

MARQUÈS J.M. NAVARRO L. DARADOUMIS, A. (2004). "Extending the Scope of Asynchronous Collaboration: a Matter of Being Autonomous and Self-sufficient". *2nd International Workshop on Distributed and Mobile Collaboration (DMC 2004)*. *13th IEEE International Workshops on Enabling Technologies: Infrastructures for Collaborative Enterprises (WETICE-2004)*. University of Modena and Reggio Emilia. Italy. ISBN: 0-7695-2183-5.

Current Projects:

Project Name	Funding Program
Mosaic Learning. Mobile, open-source, standards-based & secure, context-Aware, individualized, collaborative eLearning	Plan Nacional I + D + I
European Excellence Network Kaleidoscope. Subproject Learning Grid SIG	IST EU
Virtual Math. Digital libraries for collaborative learning	Nacional Science Fundation EEUU
Grid4All	IST EU

Link to the group website:

<http://dpcs.uoc.edu/>