

## How computing centres of Alice connect? A social network analysis of cooperative ties

The ALICE Core Computing Project conducted in the fall 2009 an inquiry on the social connections between the Computing Centres of the ALICE Distributed Computing infrastructure. This inquiry was based on social network analysis, a scientific method dedicated to the understanding of complex relational structures linking human beings. The paper provides innovative insights on various relational dimensions of the cooperative work within the ALICE project, such as support and advices, interactions by emails or work hindrances existing among centers. The analysis focuses on core-periphery and subgroups issues and reveal some suboptimally organized cluster of ties. Propositions for improvement will be discussed.

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