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2017, Pages 391-398  
29th European Modeling and Simulation Symposium, EMSS 2017; Barcelona; Spain; 18 September 2017 through 20 September 2017; Code 131583

## Agent based modeling architecture with BPMN and DEVS network (Conference Paper)

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### Abstract

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The adoption of Business Process (BP) can deal with the (re)development of information process, for instance it can help healthcare providers structuring the way information system and people have to interact. Business Process Management (BPM) is known as a methodology that aims to give a structured way of representing processes of systems. At the same time, the human resources are organized in identified or implicit structures that allows individual to exchange information either related to their work function or not. Nevertheless, the human organizations structure and communication channels are not, up to now, fully captured by the information systems. It may lead to lose part of useful information exchanged by participants. Accordingly, this paper focuses on multi-Agent solutions representing social networks in the healthcare domain associated with BPM of patient pathways. The purpose is to combine BP with agent-based models in order to better improve performance and manage resources.

### Author keywords

Business Process Business Process Management Multi-Agent Performance Resources.

### Indexed keywords

Engineering controlled terms: Autonomous agents Computational methods Enterprise resource management Health care Information systems Multi agent systems

Compendex keywords Business Process Business process management Multi agent Performance Resources

Engineering main heading: Administrative data processing

**ISBN:** 978-151084765-1

**Source Type:** Conference Proceeding

**Original language:** English

**Document Type:** Conference Paper

**Volume Editors:** Longo F., Affenzeller M., Piera M.A., Bruzzone A.G., Jimenez E.

**Sponsors:**

**Publisher:** CAL-TEK S.r.l.

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