

**Process Definition and Control in EMSG Complex Work-flow Management System Using Process Graphs and Data Addressing in a File with Flow Identifier Operator**

**Georgi Pashev<sup>(1)</sup> and Ivan Kodinov<sup>(2)</sup> and Georgi Totkov<sup>(3)</sup>**

**(3): University of Plovdiv “Paissi Hilendarski”, Tzar Assen Str.24, BG-4000 Plovdiv**

**(1, 2): Dextro Research Ltd., Prezviter Kozma Str. 3, BG-4000**

**e-mail<sup>(3)</sup>: totkov@uni-plovdiv.bg**

**e-mail<sup>(1)</sup>: georgepashev@gmail.com**

**e-mail<sup>(2)</sup>: ivankodinov@gmail.com**

## Abstract

In the context of this WfMS, a File is a sequence of Steps, ordered, according to applicable Process Graphs. Processes, defined by Developer Defined Process Graphs represent the connections between different steps and the sequence in which they may appear in the work-flow. Sub-processes are used to differentiate separate work cycles and can be nested inside standard processes. Midstream processes are system processes which cover the work-flow process. All processes, except midstream processes, contain a marker class. A step can be included in a process even if it does not have the marker class, if one of its satellite steps use it. Sub-processes are used to differentiate separate work cycles and can be nested inside standard processes or other sub-processes. A Process Instance is an actual sequence of steps. A Flow Identifier is a n-tuple of the following: step identifier, class identifier, assortment, radius, row and column.

Type: *Conference Paper*

Conference: "**Days of Science 2013**" *Union of Scientists in Bulgaria - Plovdiv*

Линк към публикацията: [https://www.dropbox.com/s/f5h4gcs4esbjrlj/Doc%20Apr%2027%2C%202016%2C%2005\\_06.pdf?dl=0](https://www.dropbox.com/s/f5h4gcs4esbjrlj/Doc%20Apr%2027%2C%202016%2C%2005_06.pdf?dl=0)

Demo available [here](#) .