This issue contains five extended papers from the 11th International Conference on Information Integration and Web-based Applications and Services (iiWAS2009), which has been collocated with the 7th International Conference on Advances in Mobile Computing & Multimedia (MoMM2009) held in Kuala Lumpur, Malaysia in December 2009.

Almost 200 papers have been presented at these two conferences, out of which we have selected five papers for this special issue. The initial conference version of the papers has been substantially extended to include thorough discussions on related work and comprehensive performance evaluation.

The first paper, by Udzir et al from Malaysia proposed new garbage collection technique for memory space. The technique utilised reference counting and mark-and-sweep garbage collection algorithm into LINDACAP system. The second paper, by Leong et al from Macau tackled the problem of resources constraints in concurrent workflows. The authors proposed a critical-path-based approach for predicting temporal exceptions, while workflows are being executed. The third paper by de Souza et al from Brazil investigated the semantics interoperability problems when using various ontologies. The authors proposed the use of negotiation concepts for addressing concept compatibility problems during communication between software agents. The fourth paper by Alwan et al from Malaysia proposed a model to rank various integrity tests in a distributed database. The motivation of the paper is lack of guideline to select the most appropriate test from abundant number of possible integrity tests. Finally, the last paper by Alsumait and Habib from Kuwait proposed a software tool for integrating a computer system based on commercial-off-the-shelf (COTS) components.

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