Sergio Flesca is Full Professor at the University of Calabria. Former he were associate professor at the same University. Moreover, he was visiting research at the "Database and Artificial Intelligence (DBAI) - Institute of Information Systems – Computer Science Department - Vienna University of Technology".

He took his PhD in Ingegneria dei Sistemi ed Informatica with a thesis entitled "Query Languages for Graph-like Databases" at the University of Calabria.

His research activities are in the field of database systems and in particular:

- Databases and World Wide Web.
  - In this area his research activities have been devoted to the study of languages for querying web data. In particular ordered extension of path expression languages have been defined which permits to express a guided form of non determinism in web queries. Moreover, he defined a technique for the personalized navigation of web sites based on a collaborative filtering approach.
- Active and Deductive databases integration
  - His research activity in this area have been devoted to the definition of declarative semantics for deductive and active rules.
- Rewriting queries using views
  - He defined a new technique for answering queries using views in the presence of negation on the base predicates.
- XML
  - In this area the research activities have been concentrated on the development of visual language for XML, on the analysis of structural property of XPath queries and on the problem of clustering XML documents by structure.
- Information extraction
  - The research activities in this area have been concentrated on the definition of a visual approach to the design of logic programming based wrappers. Moreover, he studied the impact of the presence of schema of the extracted information in the definition of web wrappers. Finally he defined a technique which combines fuzzy logic and XML DTDs to extract data from PDF documents
- Inconsistent data management
  - His research activities have been devoted to the definition of database repairing techniques for XML data. Moreover, he studied the repairing problem for relational data which are inconsistent with respect to aggregate constraints defined on numerical data.
- Approximate query answering
  - In this area he define a new technique for providing approximate answers to XPath queries issued on several heterogeneous XML data sources
- Argumentation
  - In this are he devoted his attention to the field of uncertainty management and in particular to the case of probabilistic argumentation where he provided results about the computational complexity of several reasoning problems and designed efficient algorithms for some of them.
- Process mining
  - In this area he addressed the development of models for interpreting events logs in terms of high level activities traces.

The results of his research was published in several papers which appeared in the main journals of the field, including IEEE Transactions on Knowledge and Data Engineering, Journal Of Computer And System Sciences, Information and Computation, Journal of the ACM, Artificial Intelligence and in the proceedings of the main

conferences (ACM-PODS, VLDB, EDBT, ICALP, IJCAI). He was program committee member of several conferences including VLDB, CIKM, WWW.

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