

# STUDIES

## **How image and text semantic analysis systems can be applied for educational and teaching purposes**

*Jozef Stašák*

**Abstract:** This contribution deals with algorithm closely related to design and implementation of simple database conceptual models based on terms and principles concerned to image and text semantic analysis, while the term deterministic image is being postulated and introduced and its structure elements are described. On the other hand, the presented contribution contains a set of adequate information, how that algorithm may be applied in teaching concerned to simple database conceptual model.

**Keywords:** image semantic analysis, deterministic databases, non-deterministic databases.

## **School climate as the determinant of the relationship between the level of students' resilience and school satisfaction**

*Viola Tamášová – Silvia Barnová*

**Abstract:** Resilience is an individual's capacity to recover, adapt, and keep mental balance and normal functioning when exposed to significant adversity. This competence plays an important role in one's life because it increases the probability of achieving success in various spheres of life. Schools can foster students' resilience by providing a positive school environment and a sufficient number of protective factors, but it is the subjective interpretation of conditions and experiences rather than the exposure to them that is significant. The main objective of this research was to study to what extent school satisfaction, i.e. subjective interpretation of the school climate, influenced the level of students' resilience. Not all our findings are compatible with the results of other studies. Despite the limits of our research, its results can serve as a basis for further work as not much has been done in the field of resilience research in Slovakia.

**Key words:** school climate, resilience, coping, risk factors, protective factors.

# ARTICLES

## Teacher's and student's competence beliefs according to scenario theory

*Michal Čerešník*

**Abstract:** The article is connected with the problem of personal teacher's and student's competence, resp. saturation of need for competence, which reflects our desire to sense that our activity, abilities and effort are crucial for our impression that we influence our environment, for our feeling that we are respectable people. We are interested mainly in the problem of perceived control in the context of specific scenario teacher-student.

**Key words:** teacher's/student's competence, control, scenario.

## Measuring of educational service quality (focused on universities)

*Ján Kamod'a*

**Abstract:** This paper deals with common problems in the process of education at the university level. It focuses on the quality of education process. The aim of this paper is to determine the principal criteria of the quality measurement of the education service.

**Key words:** education, quality of education, education process, educational service, quality measuring.

# Investigating the English Language Needs of Students at the University of Zilina

*Dana Lengyelfalussyová – Michaela Bakay Záhorská*

**Abstract:** This paper focuses on investigating the needs of students of ESP courses at the University of Zilina via needs analysis questionnaire. The results of the research reveal the necessity to reconsider the content of the study material at language courses at the university to satisfy the students' subject needs as well as the needs of the international job market by implementing activities enhancing the communicative competence in ESP.

**Key words:** needs analysis questionnaire, ESP courses, the communicative competence.