

## CHAPTER 1 OVERVIEW

### ANSWERS TO QUESTIONS

- 1.1 Computer architecture** refers to those attributes of a system visible to a programmer or, put another way, those attributes that have a direct impact on the logical execution of a program. **Computer organization** refers to the operational units and their interconnections that realize the architectural specifications. Examples of architectural attributes include the instruction set, the number of bits used to represent various data types (e.g., numbers, characters), I/O mechanisms, and techniques for addressing memory. Organizational attributes include those hardware details transparent to the programmer, such as control signals; interfaces between the computer and peripherals; and the memory technology used.
- 1.2** Computer structure refers to the way in which the components of a computer are interrelated. Computer function refers to the operation of each individual component as part of the structure.
- 1.3** Data processing; data storage; data movement; and control.
- 1.4 Central processing unit (CPU):** Controls the operation of the computer and performs its data processing functions; often simply referred to as processor.  
**Main memory:** Stores data.  
**I/O:** Moves data between the computer and its external environment.  
**System interconnection:** Some mechanism that provides for communication among CPU, main memory, and I/O. A common example of system interconnection is by means of a system bus, consisting of a number of conducting wires to which all the other components attach.
- 1.5 Control unit:** Controls the operation of the CPU and hence the computer  
**Arithmetic and logic unit (ALU):** Performs the computer's data processing functions  
**Registers:** Provides storage internal to the CPU

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**F Rizvi**



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**Universality of semantic frames and language specific Bulgarian data** Svetla Koeva,2025-06-20 The book Universality of semantic frames and language specific Bulgarian data is devoted to the principles of data organisation in the Bulgarian FrameNet which has been in development for more than 20 years and has gone through various phases Originally it was developed as an independent resource but for about fifteen years it has been correlated with the Berkeley FrameNet observing the following basic principles The information in the FrameNet that is relevant for the description of Bulgarian is considered language independent e g definition of frames and relations between them definitions of frames and elements and relations between them etc and is automatically transferred into a structure called a superframe For each superframe there may be one or more Bulgarian frames in which the language independent information is restructured if necessary so that it corresponds exactly to the description for the Bulgarian language The Bulgarian verbs of communication change movement contact and emotion are described in more detail their subclasses are delineated and the similarities and differences in the semantic and syntactic description for Bulgarian and English are compared and discussed It is shown how the semantic frames can be used in an experiment to assess children s mastery of semantic conceptualisation and syntactic use of verbs from their basic vocabulary These and a number of other applications automatic assignment of semantic roles automatic recognition of events in news automatic recognition of scenes in images and videos are some of the applications in which the Bulgarian FrameNet can be used In addition the semantic and syntactic information in the Bulgarian FrameNet can be used for theoretical considerations including comparative studies focussing on the modern state of the Bulgarian language and other languages for which a FrameNet has been developed

**Computational Science and Its Applications - ICCSA 2011** Beniamino Murgante,Osvaldo Gervasi,Andres Iglesias,David Taniar,Bernady O. Apduhan,2011-06-15 The five volume set LNCS 6782 6786 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2011 held in Santander Spain in June 2011 The five volumes contain papers presenting a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques The topics of the fully refereed papers are structured according to the five major conference themes geographical analysis urban modeling spatial statistics cities technologies and planning computational geometry and applications computer aided modeling simulation and analysis and mobile communications

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