

Engineering of Computer Based-Systems Enhancement Courses - Proposed Course Outlines

Jonah Z. Lavi
CBSE Associates, Israel
lavijona@shani.net

Regina M. Gonzales
New Mexico State University, USA
regonzal@NMSU.edu

Mike Mannion
Napier University, Scotland
m.mannion@napier.ac.uk

Miroslav Sveda
Technical University of Brno, Czech Republic
sveda@cese.fee.vutbr.cz

Abstract

Many modern systems are controlled by Computer-Based Systems (CBS). Examples include commercial management information systems such as airline reservations, payroll information, stock control, and electronic banking systems, real-time embedded computer systems such as process control and computer integrated manufacturing systems, space systems, telephone and communications systems, transportation systems (automotive control, train control, ship control, traffic control), medical instruments, avionics systems, missile control systems, microcomputer controlled domestic appliances and point of sale systems.

The CBS controlling these systems, typically consist of many networked, geographically distributed subsystems. Each subsystem may be or may contain a multi-computer system. They are intensively dependent on software, and frequently depend on data communication networks, human-computer interaction, and special hardware.

Engineers developing such systems have to work with CBS engineers responsible for the development of the supporting CBS. To be able to work with them they have to have a basic knowledge in the Engineering of CBS (ECBS).

The paper describes the ECBS tasks to be undertaken by systems engineers during the development of systems they build, the CBS subjects they should understand and comprehend and the structure of the courses they should take to augment their knowledge.

The proposed courses can be given as part of regular engineering undergraduate or graduate programs, or as training courses in industry.

The proposed ECBS courses are being developed by the Education and Training Working Group of the IEEE Computer Society ECBS Technical Committee. The current version of the suggested courses is based on the results of the discussions of the working group during the ECBS98 conference in Jerusalem, and on work done during the past year by the group following ECBS98.

1. Background

Many modern systems are controlled by Computer-Based Systems (CBS). Examples include commercial management information systems such as airline reservations, payroll information, electronic banking systems; real-time embedded computer systems such as process control and computer integrated manufacturing systems, space systems, telephone and communications systems, transportation systems (automotive control, train control, ship control, traffic control), medical instruments, avionics systems, missile control systems, microcomputer controlled domestic appliances and point of sale systems.

The CBS controlling these systems, typically consist of many networked, geographically distributed subsystems. Each subsystem may be or may contain a multi-computer system. They are intensively dependent on software, frequently depend on data communication networks, on human-computer interaction, and special hardware. Sometimes they are tightly integrated with their environments. The CBS may be internal to the developed systems, for example in a medical instrument,

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Ian Pickup



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Proceedings IEEE Conference and Workshop on Engineering of Computer-Based Systems IEEE Computer Society Technical Committee on the Engineering of Computer Based Systems,1999 Engineering of Computer-Based Systems Jan Kofroň,Tiziana Margaria,Cristina Seceleanu,2023-11-28 This book constitutes the refereed proceedings of the 8th International Conference on Engineering of Computer Based Systems ECBS 2023 which was held in V ster s Sweden in October 2023 The 11 full papers included in this book were carefully reviewed and selected from 26 submissions and present software hardware and communication perspectives of systems engineering through its many facets The special theme of this year is Engineering for Responsible AI **Fifth European Conference on the Engineering of Computer Based Systems** George Angelos Papadopoulos,2017-08-31 Fifth European Conference on the Engineering of Computer Based Systems Aug 31 2017 Sep 01 2017 Larnaca Cyprus You can view more information about this proceeding and all of ACM s other published conference proceedings from the ACM Digital Library <http://www.acm.org/dl> **Proceedings** ,1994

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and Electronics Engineers conference Technical sessions undoubtedly captivating participants addressed software a

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Engineering of Computer-Based Systems Jan Kofroň, Tiziana Margaria, Cristina Secoleanu, 2024 This book constitutes the refereed proceedings of the 8th International Conference on Engineering of Computer Based Systems ECBS 2023 which was held in Västerås Sweden in October 2023 The 11 full papers included in this book were carefully reviewed and selected from 26 submissions and present software hardware and communication perspectives of systems engineering through its many facets The special theme of this year is Engineering for Responsible AI *Engineering of Computer-based Systems*, 2001 This proceedings of an April 2001 conference in Washington DC comprises almost 50 papers on topics including modeling tools and technology testing and Web based systems architecture quality and measurement and analysis and experimentation The goal of the conference was to advance methods techniques and tools for the engineering of computer based systems This emerging discipline is devoted to the design development deployment and analysis of complex systems whose behavior is largely determined by computers The volume is indexed by author but not by subject c Book News Inc **Proceedings**, 2001 **Engineering of Computer-based Systems (ECBS)** David W. Bustard, Roy Sterritt, 2008

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