The State of Computer-Aided Control System Design (CACSD)

John James, Francois Cellier, Grantham Pang, John Gray, and Sven Erik Mattsson

In this special issue we have tried to provide a sample of the broad range of research activities seeking to provide theoretical foundations and software engineering tools to help control engineers understand and overcome challenges in building computer-controlled devices.

Papers include application of commercially-available software engineering environments to compare alternative PID anti-windup strategies (Bohn and Atherton), to use parallelization to investigate multiobjective optimization (Chipperfield and Fleming), and to improve control of a commercial polymerization reactor (Ogunnaike). Object-oriented research topics range from creating a fourth-generation language for guidance, navigation, and control problems (Englehart and Jackson) to a focus on symbolic and numerical computations (Polyakov, Ghanadan,

and Blankenship) to support for controlling mechatronic systems (Ruiz and Richert) to support for controlling more general systems (Grübel).

Finally, hybrid systems is an emerging subject area that provides a new look at a recurring issue in control science: the appropriate division of control activities between analog and digital portions of the controlled system. Hybrid systems are those systems that exhibit both continuous and discrete states. Hybrid systems papers include discussion of a separation principle for hybrid control system design (Benere and Franklin) and discussion of initial thoughts on creation of a software engineering environment for hybrid systems (Kohn et al.).

As computer-controlled systems become ever larger and more complex, the difficulties of achieving performance objectives in the presence of disturbances and modeling uncertainties become ever more challenging. The multidisciplinary nature of modeling and simulation to achieve product and process understanding in diverse application areas such as discrete manufacturing, tele-

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