

Third Party Libraries

In addition to the libraries included with Extend, Extend+BPR, and Extend+Manufacturing, some Extend users have developed specialized libraries for distribution. These Third Party Libraries and their Developers are listed below.

C-CASLab (Classical Control Analysis & Simulation Lab)

Description

A system of libraries developed for the field of Control Engineering. With C-CASLab the user can construct models of classical control systems in many disciplines, simulate operation of the models, and analyze model properties. The user-interface of the library is designed for maximum flexibility while minimizing changes in the model structure.

Applications

Control systems; mainly in the automotive, aerospace, and consumer products industries. For example: Thermostat control settings which turn ovens on and off; Hydraulic brake systems on trucks; servo systems such as steering mechanisms and their effect on other parts; inner workings of machines; etc.

Developer: AC Engineering Systems, Inc.
P.O. Box 25141
Fort Wayne, IN 46897-2594 USA
Telephone/FAX: 219-489-2226

ControlWare

Description For designing, analyzing, and simulating dynamic system and feedback controllers. ControlWare includes classic control system analysis techniques: time response, frequency response, phase and gain margin readouts, and root locus. These techniques are in the form of virtual instruments that are attached to the system, as in a circuit tester, that would provide classic control system criteria. It features both linear and nonlinear analysis.

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Developer: Seagull Technologies
1310 Hollenbeck Ave., Suite F
Sunnyvale, CA 94087-9716 USA
Telephone: 408-732-9620
FAX: 408-736-7103

NeuroLab

Description Libraries of blocks for artificial neural network computation and its applications. NeuroLab includes both educational blocks to assist in the training of modeling neural networks and advanced blocks for more robust applications. Various types of networks that can be modeled with

NeuroLab include: Hopfield, perceptron, competitive, recurrent, and multi-layer feed-forward networks. It is ideal for those involved in image processing, data classification, future prediction, adaptive control, dynamics identification optimization, and content addressable memory.

Applications

Adaptive control and robotics, nonlinear system identification, image processing, data classification, content addressable memory, optimization.

Developer: Mikuni Berkeley R & D Corp.
4000 Lakeside Drive
Richmond, CA 94806
Telephone: 510-222-9880
Fax: 510-222-9884

PaperMac II, FlowMac, ViscMac, EnviroMac

Description Raw materials, process, and virtual instrument libraries for modeling the papermaking process, paper quality, viscose cellulose process, and environmental processes. Includes pulps, fillers, chemicals, coatings, refiners, dryer sections, calenders, presses, "instruments" for analyzing brightness and opacity, etc.

Applications For papermaking processes.

Developer: Lars Nyborg
PaperMac AB
SKOTV.9
S-61834 Kolmarden, Sweden
Telephone: +46-119-1233
FAX: +46-119-8295

Voigt fx

Description Libraries for analytical chemistry; including optics, electronic signal processing, instrumentation, spectrometrics, etc. Implements the entire Jones and Mueller calculi and simultaneously models signal and noise. These libraries are used to evaluate and compare published and/or proposed spectrometric techniques, facilitate review of research papers and proposals, teach instrumental analysis, and the design of instrumentation.

Applications Optics, electronic signal processing, instrumentation, and spectrometrics.

Developer: Edward G. Voigtman, Jr.
Attn: Voigt fx
Box 169
351 Pleasant Street
Northampton, MA 01060 USA
Telephone: 413-586-6515
Fax: 413-545-4490

Please contact the individual Third Party Developer for more information about their library.

If the library you are looking for is not listed, please contact Imagine That! for information on Third Party Libraries under development.

If you have developed a library you want to distribute to other Extend users, please contact Imagine That, Inc. If you have developed models and libraries you want to distribute to other RunTime users, contact Imagine That! for information about acquiring a "RunTime Developer's Toolkit".

6830 Via Del Oro, Suite 230 • San Jose, CA 95119 USA
Phone 408-365-0305 • FAX 408-629-1251

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