PREV v. 3.1 PreGEN:1000

Project Evaluation Software with Pre-Generation Simulation Pattern Modul

About

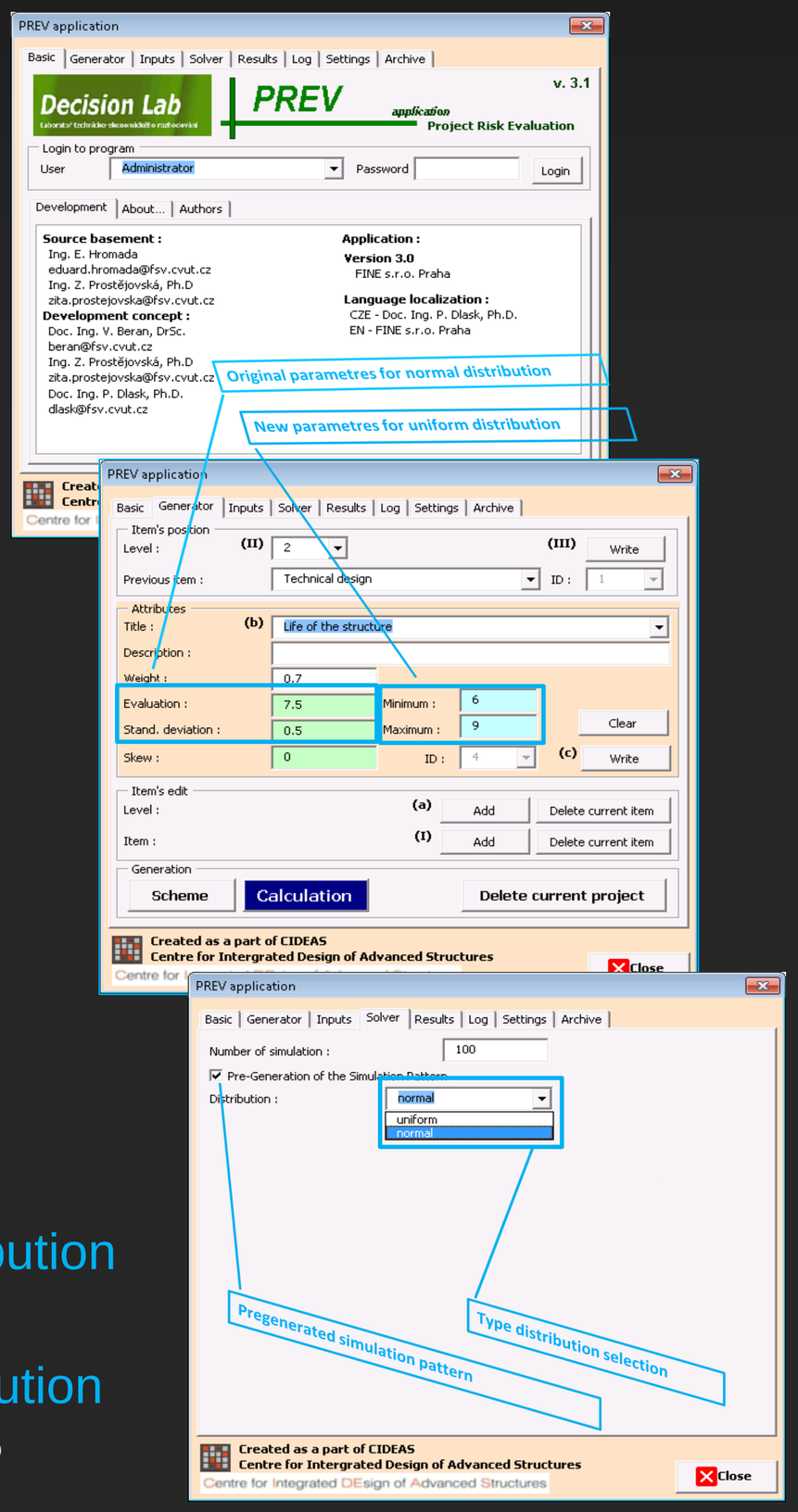
- Extended in the frame of **Decision Laboratory**
- Centralized development project **Ministry of Education**, 7th program for support of activities
- Title: **Laboratory of technical and economical decision**

PreGEN **PreGen:1000**

Key features

- pregeneration of simulation pattern **PreGEN:1000**
- selection the type of distribution for simulation
- implementation of the uniform distribution
- localisation of the new strings
- user-defined function of the solver: GetRandPREV

Screenshots



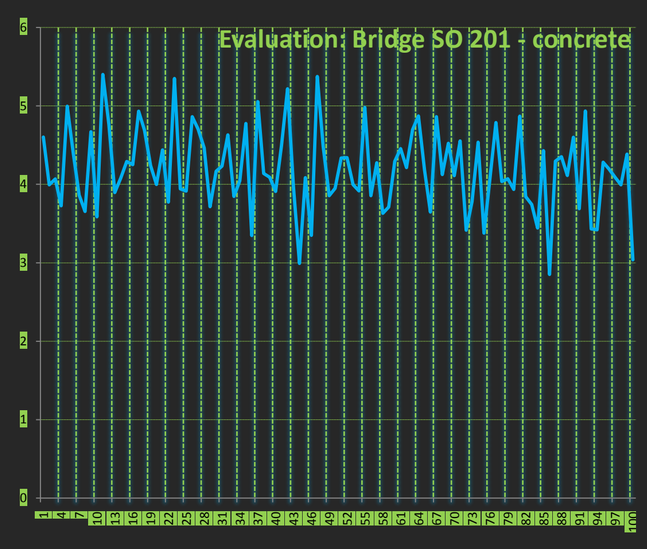
PREV function for simulation

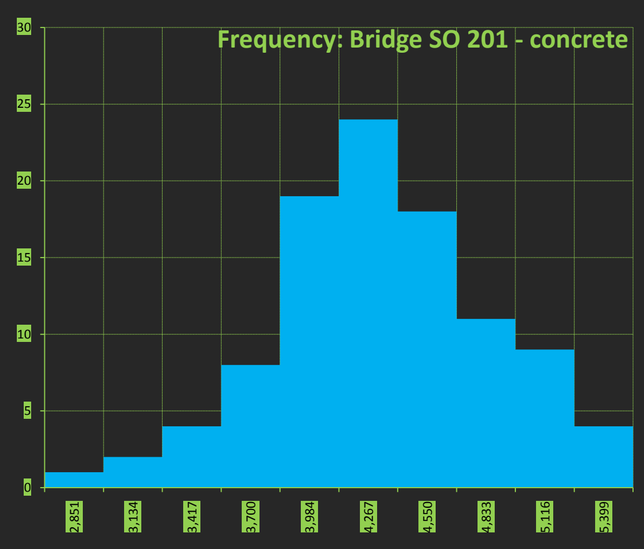
```
Function GetRandPREV(AOrder As Integer, AMean As Double, AStDev As Double, AMin As Double, _
  AMax As Double) As Double
' volatile function
Application.Violatile
' select type of random number generation
 Select Case Sheets("Settings").Cells(2, 20)
  Case 0 ' uniform distribution
    ' IF use PreGEN:1000 pregenerated simulating pattern
    If Sheets("Settings").Cells(1, 20) Then
      GetRandPREV = (AMax - AMin) * Sheets("Pattern").Cells(AOrder, 1) + AMin
    Else
      GetRandPREV = (AMax - AMin) * Rnd() + AMin
    End If
  Case 1 ' normal distribution
    ' IF use PreGEN:1000 pregenerated simulating pattern
    If Sheets("Settings").Cells(1, 20) Then
      GetRandPREV = WorksheetFunction.NormInv(Sheets("Pattern").Cells(AOrder, 1), AMean, AStDev)
    Else
      GetRandPREV = WorksheetFunction.NormInv(Rnd(), AMean, AStDev)
    End If
 End Select
End Function
```

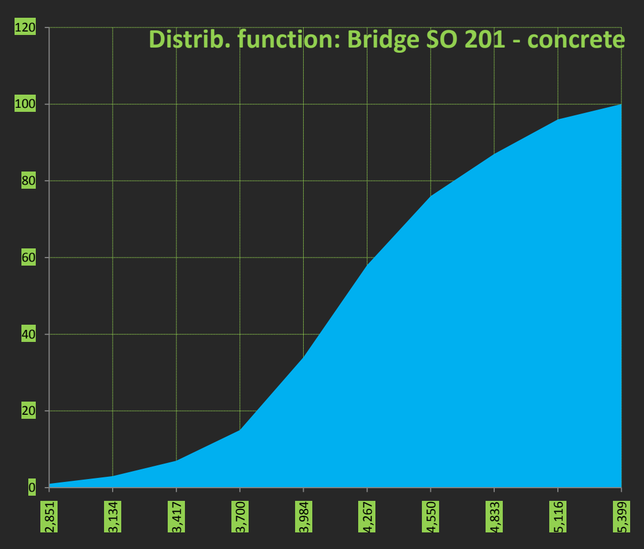
Uniform distribution

Normal distribution

Section for **PreGEN:1000** use







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