

## Final presentation for the Edukalibre project

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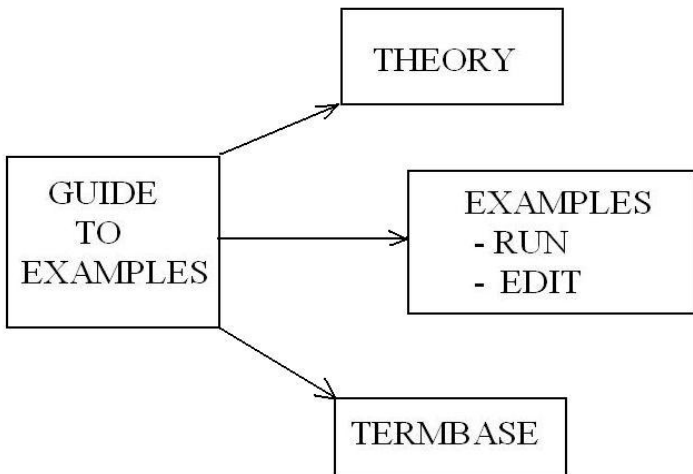
November 30, 2005



## What has been done?

- learning text on "Bayesian decision making"
- workable examples illustrating the theory
- informative guide to the examples
- "termbase" with main terms briefly described
- documentation

## How is it organized?



## Where is it available?

- <http://moodle.utia.cas.cz>
- SVN repository
- installation CD

Course: Edukalibre - Microsoft Internet Explorer

Soubor Úpravy Zobrazit Obilbené Nástroje Návod

Zpět → → → Hledat Obilbené

Adresa <http://moodle.utia.cas.cz/course/view.php?id=4> Přejít

Odznaky Seznam Google Telefonní seznam Windows Windows Media Test rychlosti Oskar ITČky Město Poděbrady IDOS

**moodle**

UTIA AS >> Edukalibre Turn editing on

**Administration**

- Turn editing on
- Settings...
- Teachers...
- Students...
- Backup...
- Restore...
- Scales...
- Grades...
- Logs...
- Files...
- Help...
- Teacher forum

**My courses**

- AS educational material
- Edukalibre  
All courses...

**Topic outline**

*Basic publications on Bayesian Decision Making*

- Bayesian approach to system identification  
by V. Peterka (1981)

**1 Theoretical part developed under Edukalibre**

- About a structure of the learning text
- Bayesian Decision Making Theory by I.Nagy et al

**2 Software part - Examples (developed under Edukalibre)**

- What the software part contains?
- Documentation
- If you don't have Octave at your computer, click here and install it
- Download (edukalibre.tar.gz)
- Download (edukalibre.zip)

**3 Evaluation**

- Questionnaire for students.txt
- Questionnaire for students.pdf

Internet

Start

## Progress from the last meeting

- one universal distribution (Linux + Windows)
- learning text revision
- completing of the examples
- all files accessible on SVN
- utilization of example package by students
- continuation of the work on the advance level

# Teaching material evaluation

- learning material used in courses for PhD students (UTIA, CTU)
- questionnaire concerning installation and use of the product was created
- evaluation scale 1-5 (strongly agree-strongly disagree)
- verbal comments serving as feedback

## Evaluation results

- 1 Installation was without problems.
- 2 The product is easy to use.
- 3 Learning text is well arranged.
- 4 Linkage between examples and learning text is clear.
- 5 Number of definitions and variables with hyper-links is enough.
- 6 Examples give good understanding of the DM task.
- 7 The results on the pictures are understandable.
- 8 Manual concerning usage of examples is sufficient.
- 9 The product is useful for the purpose of learning.
- 10 I am familiar with LaTeX (Octave).

No	1	2	3	4	5	6	7	8	9	10
Mean	1,5	1,5	1,2	1,5	2	2,1	1,9	1,6	1,3	3,3

## Dissemination

- learning materials used by 25 PhD students (2 courses)
- UTIA manages DAR applied research center:  
basic research results  $\Rightarrow$  practice  
Edukalibre tool set exploited
- disseminated knowledge in:
  - Research report EDUKALIBRE - guide
  - Bayesian Decision Making and E-learning: Interactive Examples, Suzdaleva, Nagy (Research Report) ÚTIA AV ČR
  - V. Peterka: Bayesian System Identification (a very basic text)
  - newest research papers like:  
When Has Estimation Reached A Steady State?  
M. Kárný et al, ACASP 2005

# UTIA's point of view

- Good features
  - fruitful idea
  - worth of developing
  - perfect channel research  $\Rightarrow$  practice
- Drawbacks
  - insufficient support for the real cooperation of the authors
  - problems with mathematics
  - problems with correct representation of the Czech letters

# Conclusion

- Current state
  - complete learning text with workable examples
  - all accessible through SVN and Moodle
  - learning material tested by the students
- What next?
  - "Bayesian Decision Making" at advance level:  
new results converted into examples  
immediately after submission

# Acknowledgements

It has been pleasant experience to work  
with **Edukalibre team!**