Worldwide Education Network for Children using Squeak and Field Servers


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National university
1,700 faculty + staff
7,400 students

- Humanities and Social Sciences
- Education
  - Elementary and Junior High Schools
- Medicine
- Engineering
- Bioresources
- Research Centers ...
Education
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e-Culture
Conventional Education
Problem Based Learning
Higher Education Development Center

Higher Education Development Center

三重大学 高等教育創造開発センター(Higher Education Development Center)は、
教育開発部門、教育情報システム部門、教育評価部門、教育連携部門の四部門にて構成され、
三重大学の教育目標の達成に向けた教育諸活動の創造、開発推進及び支援を行います。
Web-based Learning

= Type keyword in Yahoo!
Goals

• Problem Based Learning
• K12 + University
• International
• Environmental
• Technological
Field Servers

http://model.job.affrc.go.jp/FieldServer/
• Sensors
  - temperature
  - humidity
  - light
  - ...
• Webcam (camera)
• Web server unit
• Wireless LAN
Ad-hoc network of field servers
Field Server II
Field Server to be released next April by Matsushita Electric Works, Ltd.
http://www.mew.co.jp/press/0504/0504-1.htm
Goals

• Problem Based Learning
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Prof. Kameoka on the Field Server
Alan Kay and Hiroshi Shimamura of Elab Experience
Alan Kay

- Personal Computer ("Dynabook")
- Graphical User Interface
- Object-Oriented Programming
- Smalltalk → Squeak
- 2003 Turing Award
- 2004 Kyoto Prize
Squeak Etoys
こちらクリックすると、スクリプトの名前を編集できます。
School Garden

Field Servers

farm

Animals
HP + Alan Kay + Mie University
(Right: President of Mie University)
• HP donated PCs to kids
• Alan Kay and HP volunteers (“squeakers”) taught kids
Schoolkids, Alan Kay, and the Squeakers (Video)
Ongoing Project
Development of Educational Programs

Mie University

• Center for Information Technologies and Networks
• Faculty of Bioresources
• Faculty of Education
  - Center for Educational Research
  - Attached primary & secondary schools

Squeak-Field Server Interface

elab experience
Thank you!

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