

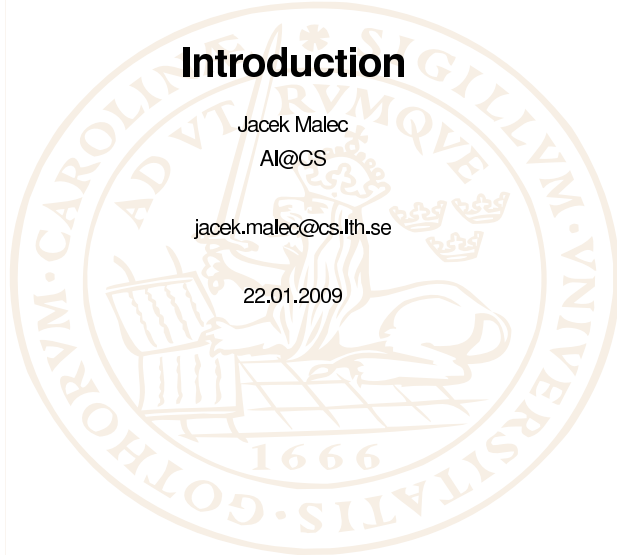


## Introduction

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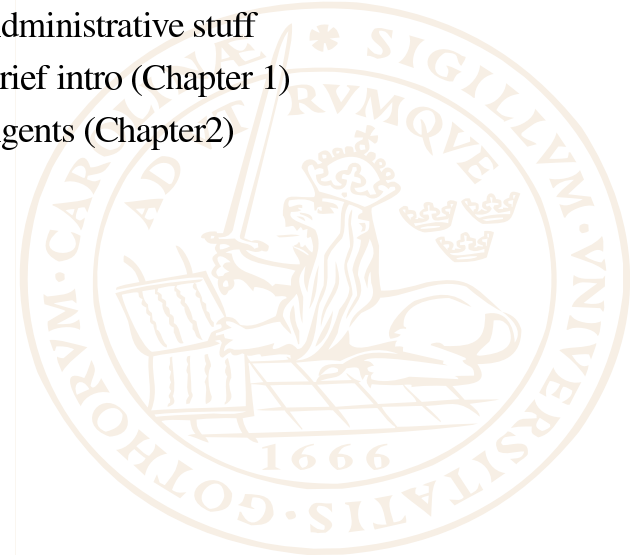
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## Plan for today

- Administrative stuff
- Brief intro (Chapter 1)
- Agents (Chapter2)



## Some appetizing facts

Taken from

“50 facts about Agent-Based Computing”

prepared by **AgentLink III**

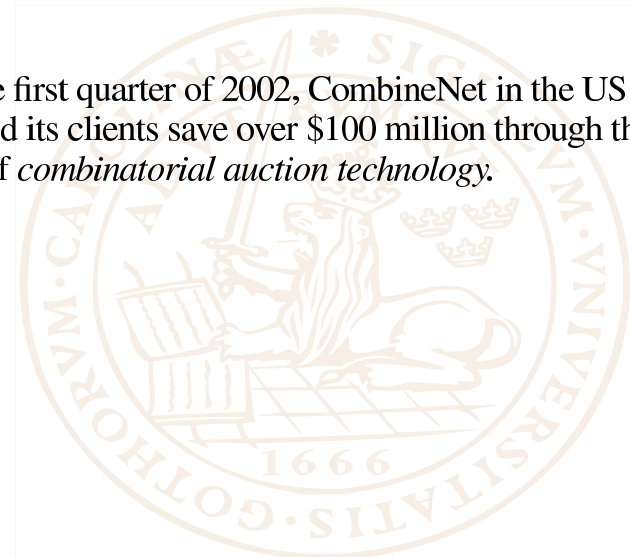
[www.agentlink.org](http://www.agentlink.org)

[www.ecs.soton.ac.uk/news/pdfs/AgentLink\\_Fifty\\_Facts.pdf](http://www.ecs.soton.ac.uk/news/pdfs/AgentLink_Fifty_Facts.pdf)



## FACT 25:

In the first quarter of 2002, CombineNet in the US helped its clients save over \$100 million through the use of *combinatorial auction technology*.



FACT 26:

Daimler Chrysler implemented an **agent-based system** on one factory floor to allow individual workpieces to be directed dynamically around the production area. The intention was to implement flexible manufacturing to meet rapidly changing operations targets, and the result was a **20% increase in productivity** on average. The resulting prototype system was in day-to-day operation for five years up to the end of the life-cycle of the targeted product.

FACT 36:

**Automated agent traders** account for over 50% of portfolio trades by value most weeks on the New York Stock Exchange and, in some weeks, as much as 70% of portfolio trades.

A couple of agents more ...

The screenshot shows the PriceRunner website interface. At the top, there's a navigation bar with links like 'Jämför priser och produkter', 'Hitta din butik', 'Forum', 'Logga in', and 'Konsumentsajter'. Below this, there are several product categories listed, such as 'Mobiltelefoner', 'Digitalkameror', 'TV', 'MP3-spelare', 'Bärbara datorer', 'Kontaktlinser', 'Resor', 'Böcker', 'DVD-filmer', 'Spelkonsoler', 'Damkläder', 'GPS-mottagare', and 'Bredband'. A prominent banner for 'Willy's' is visible, stating 'Välkommen till Willy's. Den mest prisvärda mataffären enligt 79% av de tillfrågade i en ny undersökning!'. The main content area displays search results for 'Jämför pris och hitta bästa köpet'.

A couple of agents more ...

The screenshot shows the SAS website interface. The main content area features a flight search section for 'EuroBonus' and 'Travel Pass / Travel Pass Corporate'. There are several flight options listed with columns for departure and arrival times. A sidebar on the right contains a 'Hjälp & kontakt' section with a search bar and a list of popular destinations including Beijing, Wien, Nice, and New York. The bottom of the page shows a 'Populära resmål' section with a list of cities like New York, Chicago, Bristol, and Trondheim.

## About the course

- EDA132: Applied artificial intelligence
- DATE15: Introduction to artificial intelligence
- <http://www.cs.lth.se/EDA132>
- <http://www.cs.lth.se/DATE15>
- Serves as an announcement board as well!
- Meaning I expect you to read it every day!!!
- Teachers: Jan Eric Larsson, Pierre Nugues, Jacek Malec
- Secretaries: Lena Ohlsson, Mikael Antic

## Contents

- 7,5 HP
- Lectures (14+2) Thursdays, 15–17
- Guest Lecture 1: Loebner Prize Winner Elbot!
- Programming assignments (4 out of 5)
- TAI Championship (assignment 2)
- Home reading (textbook)
- S. Russell, P. Norvig, Artificial Intelligence, a Modern Approach, 2/ed, Prentice Hall
- Please register yourself ....

## Evaluation

- Exam: Also material not taken during the lectures! But definitely pointed to in the “reading advice” section.
- Programming assignments: correctness **and** presentation
- Complexity level of programming assignments (2 and 3 may be “more equal” than others)

but

- I need your feedback ...
- Kursombud (course representatives), in particular D-line, need to be chosen

## End of the introduction

Questions? Comments?