



LUNDS  
UNIVERSITET

# Föreläsning 7: LU Rumble 2018

Programvaruutveckling - Metodik 2018 | Markus Borg



# Agenda F7

---

1. Tävlingsinformation
  - Regler
  - Utmärkelser
2. LU Rumble 2018
  - Uppvärmnings-melee battle
  - Åttondelsfinaler
  - **- RAST -**
  - Kvartsfinaler
  - Semifinaler
  - Bronsmatch
  - Most Profitable Team Award
  - Final i LU Rumble 2018
  - Most Valuable Robot Award



LUNDS  
UNIVERSITET



LUNDS  
UNIVERSITET

# Robotprojekten

Programvaruutveckling - Metodik 2018 | Markus Borg

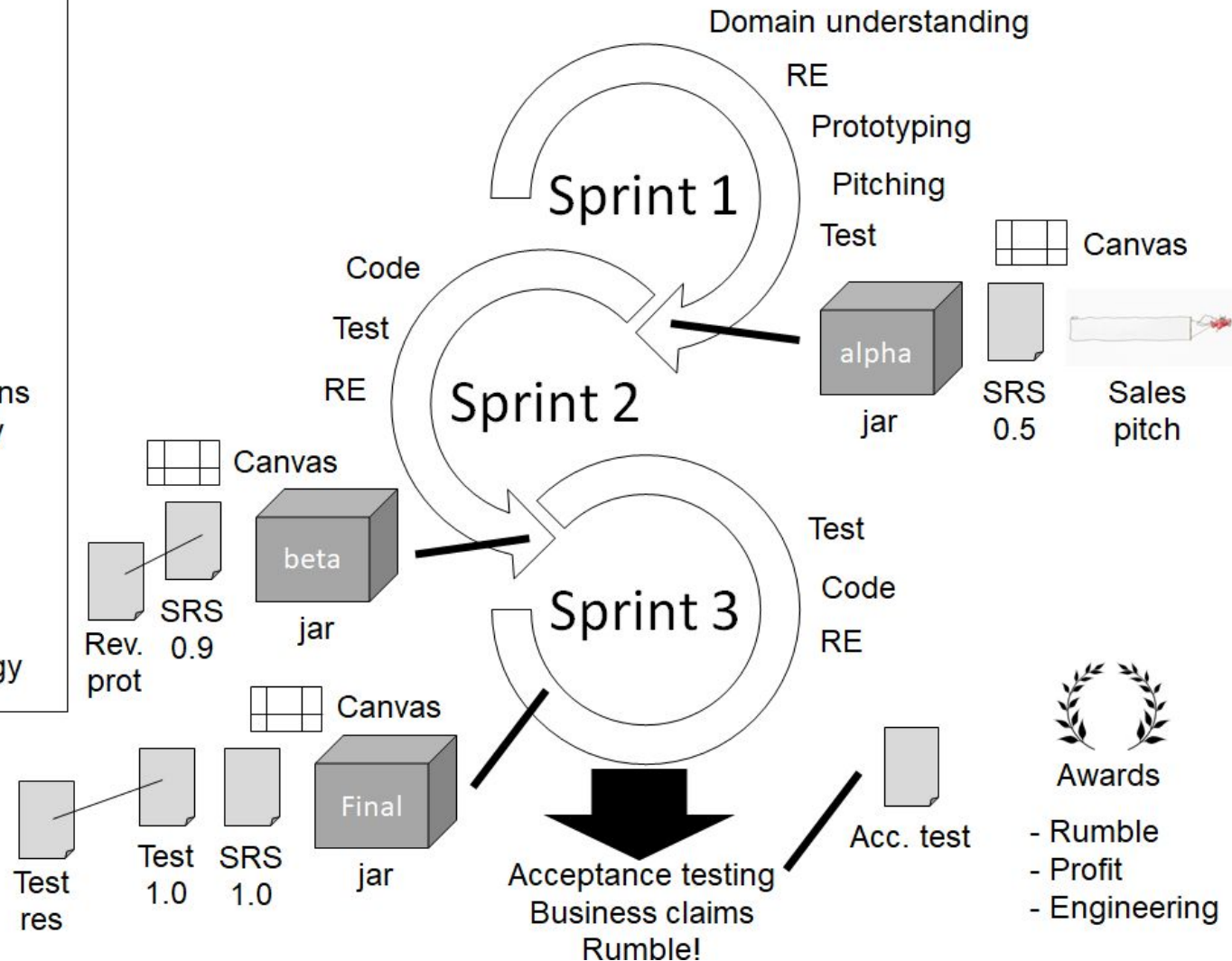






# High-level goals

- Team formation
  - Feature scoping
  - Sales pitch
- 
- Evolve product
  - Maintain business relations
  - Develop Rumble strategy
- 
- Complete product
  - High-volume sales
  - Optimize Rumble strategy



Awards

- Rumble
- Profit
- Engineering

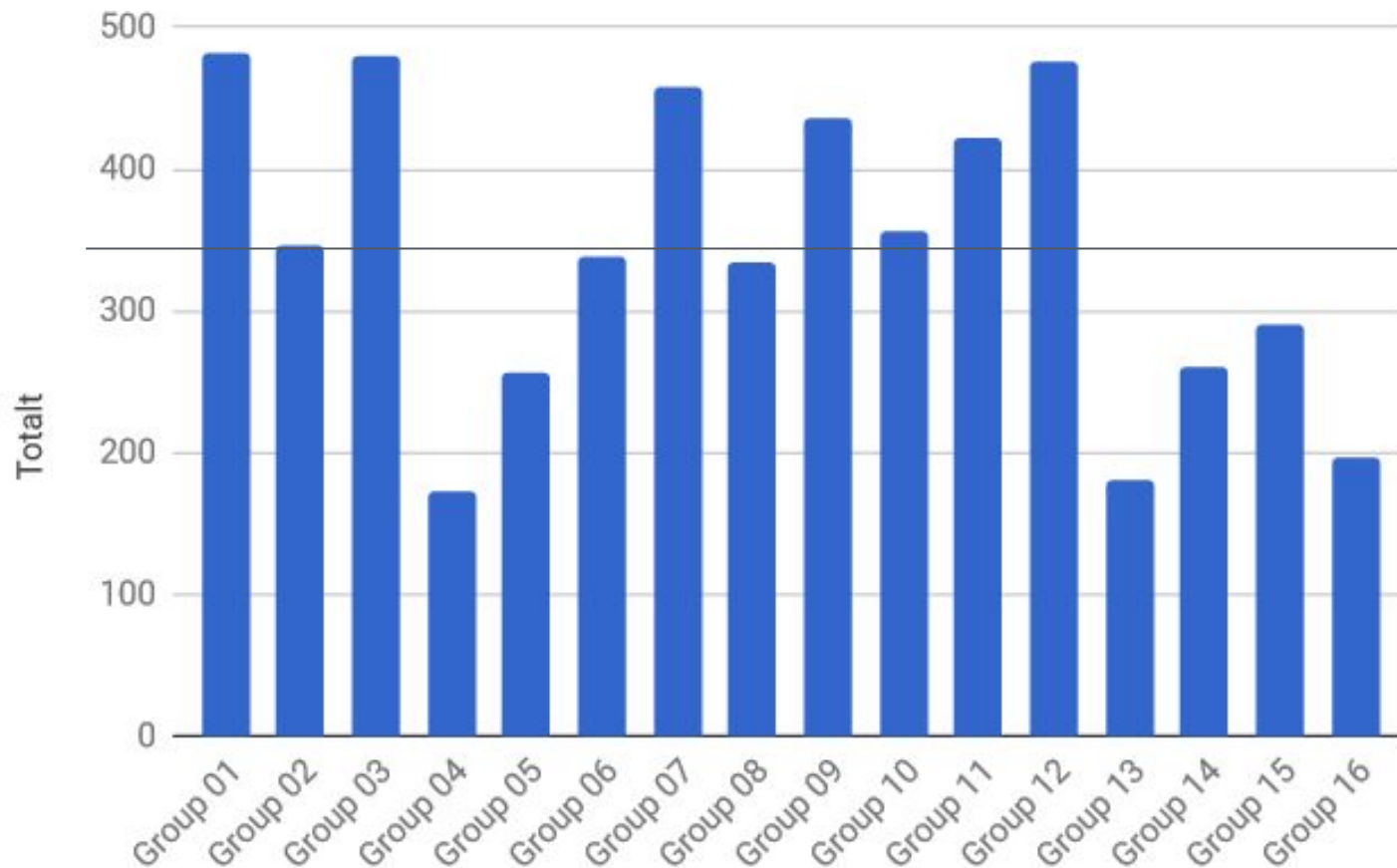


**LUNDS**  
UNIVERSITET

# Tidrapporter - Total tid per grupp

---

Totalt



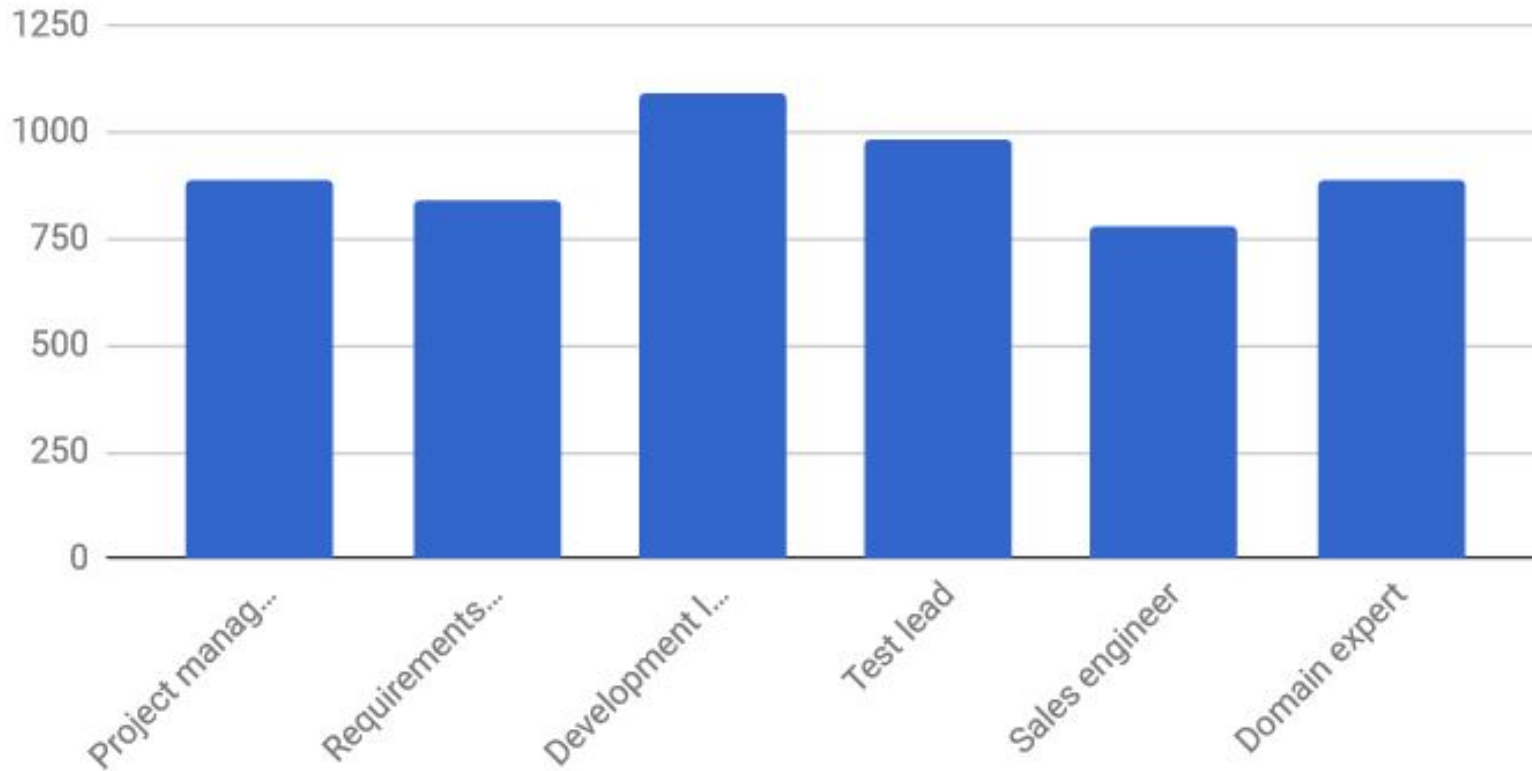
343 h



LUND  
UNIVERSITY

# Tidrapporter - Total tid per roll

---



**LUND**  
UNIVERSITY

# Enter the global competition

---

- Global ranking of Robocode robots
  - RoboRumble - 1v1 battle on a 800x600 battlefield over 35 rounds.
  - MeleeRumble – Ten bots on a 1000x1000 battlefield over 35 rounds.
  - TeamRumble – Two teams of 5 bots each on a 1200x1200 battlefield over 10 rounds.
  - Twin Duel – Two teams of 2 bots each on a 800x800 battlefield over 75 rounds.
- Weight classes: The rumble engine will automatically calculate your robot's Code Size and place it in the appropriate category.
- [http://robowiki.net/wiki/RoboRumble/Enter\\_The\\_Competition](http://robowiki.net/wiki/RoboRumble/Enter_The_Competition)



LUNDS  
UNIVERSITET













# Current top-10 in 1v1 battles

---

## RANKINGS - ROBORUMBLE WITH 1160 BOTS

### Rankings Stable

	Flag	Competitor	-APS	PWIN	ANPP	Vote	Survival	Pairings	Battles	Latest Battle
1		<a href="#">jk.mega.DrussGT 3.1.6</a>	92.04	100.0	97.02	13.29	98.18	1159	14662	2018-05-14 00:07:15
2		<a href="#">voidious.Diamond 1.8.22</a>	90.51	99.74	95.5	10.54	97.76	1159	24646	2018-05-17 00:11:27
3		<a href="#">aaa.ScalarBot 0.012n2.9.14b</a>	89.58	99.91	94.45	9.4	97.07	1159	14575	2018-05-17 00:11:30
4		<a href="#">cb.fire.Firestarter 2.0f</a>	88.65	99.74	93.4	1.63	97.0	1159	14650	2018-05-06 13:14:36
5		<a href="#">aw.Gilgalad 1.99.5c</a>	88.36	99.4	93.05	1.05	95.82	1159	18532	2018-05-18 00:09:51
6		<a href="#">xander.cat.XanderCat 12.9</a>	88.31	99.22	92.88	1.3	94.75	1159	14658	2018-05-13 12:14:20
7		<a href="#">lxx.Tomcat 3.68</a>	88.26	99.57	92.97	1.92	95.81	1159	22731	2018-05-10 04:40:51
8		<a href="#">rsalesc.mega.Knight 0.6.28</a>	88.21	99.74	92.95	0.78	96.63	1159	14615	2018-05-15 00:11:58
9		<a href="#">cs.Nene 1.0.5</a>	87.55	98.71	92.12	0.89	93.4	1159	14663	2018-05-13 00:11:35
10		<a href="#">kc.serpent.WaveSerpent 2.11</a>	87.26	99.22	91.83	1.22	93.82	1159	23230	2018-05-18 00:14:48



**LUNDS**  
UNIVERSITET



LUNDS  
UNIVERSITET

# LU Rumble 2018

Programvaruutveckling - Metodik 2018 | Markus Borg



# Rules of LU Rumble 2018

---

- Multiple rounds using Robocode standard scoring
  - First round, quarter finals, and semi finals: 3 rounds
  - Bronze match: 4 rounds
  - Final: 5 rounds
- Battlefield size: 1200 x 1200
- Standard settings
  - Gun cooling rate: 0.1
  - Inactivity time: 450
- The team with the highest score proceeds to the next round



**LUNDS**  
UNIVERSITET

# Three Awards

---

- Most Profitable Team Award
  - The team that generated the most € in sales (+savings)
- Most Valuable Robot Award

After each battle, all individual robot gets the team score (+=)

At the end of the LU Rumble, each robot divides its total score by the number of appearances it had on the battlefield.

The robot with the highest figure wins!

- LU Rumble Winner



**LUNDS**  
UNIVERSITET

# Lottningen

---





# LU Rumble Warmup 2018

---

- Three robots didn't make it into any teams
- They will now help us get into the format
  - A friendly warmup battle
- Two Phantoms lead by its Testing Leader
- Two R2D2s lead by a BasicLeader Bot
- Two independent SecuBots
- One special invited guest: DexterBot



**LUNDS**  
UNIVERSITET



LUNDS  
UNIVERSITET

# Lagpresentationer

Programvaruutveckling - Metodik 2018 | Markus Borg



# SHARP (Group 04)

---

Leader

MarkovBot

Normal robots

MrRobot

MrRobot

MrRobot

MrRobot



LUNDS  
UNIVERSITET

# R2D2 (Group 11)

---

Leader

Bob

Normal robots

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram



**LUNDS**  
UNIVERSITET

# You won't believe (Group 16)

---

Leader

Hannibal

Normal robots

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram



**LUNDS**  
UNIVERSITET



# Sjönsjons Nudistklubb (Group 14)

---

Leader

Hannibal

Normal robots

SHARP

MrRobot

MrRobot

MrRobot



**LUNDS**  
UNIVERSITET

# Spirit of Morgan (Group 15)

---

Leader

Markov

Normal robots

WolfTank

WolfTank

WolfTank

WolfTank



**LUNDS**  
UNIVERSITET

# UnihorseForce (Group 01)

---

Leader

Bob

Normal robots

MrRobot

MrRobot

MrRobot

MrRobot



**LUNDS**  
UNIVERSITET

# Alligators (Group 03)

---

Leader

Bob

Normal robots

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram



**LUNDS**  
UNIVERSITET

# Trubbel (Group 08)

---

Leader

Basic Leader Bot

Normal robots

Rainbow

Rainbow

MrRobot

MrRobot



**LUNDS**  
UNIVERSITET



# Imperiet (Group 13)

---

Leader

Bob

Normal robots

MrRobot

MrRobot

MrRobot

MrRobot



**LUNDS**  
UNIVERSITET

# fsociety (Group 07)

---

Leader

Hannibal

Normal robots

T.R.A.C.I.E.

WolfTank

WolfTank

WolfTank



**LUNDS**  
UNIVERSITET

# Dementors (Group 09)

---

Leader

Basic Leader Bot

Normal robots

Rut the Ruthless Ram

Rut the Ruthless Ram

WolfTank

WolfTank



**LUNDS**  
UNIVERSITET

# Monochrome (Group 05)

---

Leader

Hannibal

Normal robots

WolfTank

WolfTank

WolfTank

WolfTank



**LUNDS**  
UNIVERSITET

# BananaSplit (Group 02)

---

Leader

Bob

Normal robots

DopeBot

XTerminator

XTerminator

XTerminator



**LUNDS**  
UNIVERSITET



# LOA<sup>3</sup> (Group 06)

---

Leader

Markov

Normal robots

Coborode

Coborode

Coborode

Coborode



**LUNDS**  
UNIVERSITET

# Spicy Boys (Group 12)

---

Leader

Hannibal

Normal robots

Rainbow

Rainbow

Rainbow

Rainbow



**LUNDS**  
UNIVERSITET

# DopeGang (Group 10)

---

Leader

Bob

Normal robots

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram

Rut the Ruthless Ram



**LUNDS**  
UNIVERSITET