Scientific Theory in Informatics A1N

Seminar 01

Complexity Theory
Automata Theory & Computability Theory

David Vernon
School of Informatics
University of Skövde

david.vernon@his.se

Seminar Structure

◆ All groups will be selected during the seminar

- Four for Complexity Theory
- Five for Automata Theory & Computability Theory

◆ Each group will make a presentation on the exercise

◆ Followed by a brief class discussion

◆ Seminar: **learning exercise**, not an assessment exercise

Seminar Structure

◆ To ensure that all students engage fully

- All groups must hand up a printed copy of the two presentations they prepared for each seminar

Group Members

Student	MSc	PhD	Group
Alhannah, Saehr			9
Augustsson, Peter	x		1
Bevilacqua, Fernando	x		1
Boitinskaya, Valeriya	x		1
Danielsson, Oscar		x	2
Drejing, Karl		x	2
Dubey, Rohini	x		2
Ekelund, Olof			9
Ezeh, Anthony	x		3
Erikson, Stefan		x	3
Gabilondo Intxaurraga, Ander	x		3
Gustavsson, Patrik		x	4
Huhnstock, Nikolas Alexander	x		4
Ismail, Muhammad		x	4
Karavatos, Athanasios	x		5
Lagerstedt, Erik		x	5
Langenhuisen, Werner	x		5
Lecuona Mugica, Iñigo	x		6
Liu, Yu		x	6
Ljungstrand, Lena	x		N/A
Majeed, Jabeer	x		6
Mohamed, Hilal S.	x		7
Nawaz, Amir	x		7
Petersson, Andreas	x		7
Rangasamy, Arulselvan	x		8
Ruiz Zúñiga, Enrique		x	8
Schmidt, Bernard		x	N/A
Siegmund, Florian		x	N/A
Svensson, Torbjörn		x	8
Yasheen, Sharifa	x		8

Complexity Theory Exercises

Groups should answer the following questions in the problem sheet provided

- » Group 1:   1
- » Group 2:   2
- » Group 3:   3
- » Group 4:   4
- » Group 5:   5
- » Group 6:   6
- » Group 7:   7
- » Group 8:   8
- » Group 9:   9

Automata Theory & Computability Theory Exercises

Groups should answer the following questions in the problem sheet provided

- » Group 1:   8
- » Group 2:   7
- » Group 3:   6
- » Group 4:   5
- » Group 5:   4
- » Group 6:   3
- » Group 7:   2
- » Group 8:   1
- » Group 9:   8