

Computer Science and Interactive Technology

Department of Computer Sciences <http://www.cs.uta.fi/>

email: tietojenkasittelytieteiden.laitos@uta.fi

Kanslerinrinne 1, 33014 University of Tampere, tel 3551 6616 (office), in study related issues email: studies@cs.uta.fi

Here is only mentioned the staff participating in teaching, check whole staff from the department's web pages.

Head of department: NUMMENMAA Jyrki, FT, office hour Thu 12-13 Pinni B1003, puh. 3551 6784.

Professors: JUHOLA Martti, Ph.D., leave of absence; KANGASSALO Hannu, Lic Fil., office hour Mon 14.30-15.30 Pinni B1027, tel. 3551 6778; MÄKINEN Erkki, Ph.D., office hour Thu 8-9 Pinni B1005, tel. 3551 6179; NUMMENMAA Jyrki, Ph.D., office hour Thu 12-13 Pinni B1003, tel. 3551 6784; RAISAMO Roope, Ph.D., office hour Thu 13-14 Pinni B1004, tel. 3551 7056; RUOHONEN Mikko, D.Sc., leave of absence, acting NYKÄNEN Pirkko, Ph.D., office hour Thu 10-11 Pinni B1002 tel. 3551 8573; RÄIHÄ Kari-Jouko, Ph.D., office hour Mon 9-10 Pinni B1008, tel. 3551 6952; SURAKKA Veikko, Ph.D.(Psych), office hour Mon 10-11 Pinni B4002, tel. 3551 8551.

Professor (emeritus): JÄRVINEN Pertti, Ph.D., Pinni B1001, tel. 3551 6783, 0400-736827.

Lecturers: HIETALA Pentti, Lic.Fil, office hour Wed 10-11 Pinni B1033, tel. 3551 6780; HYRSKYKARI Aulikki, Ph.D., office hour Wed 13-14 Pinni B1035, tel. 3551 6776; ILTANEN Kati, Ph.D., office hour Thu 10-11 Pinni B1020, tel. 3551 7042; LAURIKKALA Jorma, Ph.D., office hour Thu 12-13 Pinni B1038, tel. 3551 7564; OVASKA Saila, Lic.Fil, office hour Tue 11-12 Pinni B1009, tel. 3551 7058; *virka avoinna*, acting PORANEN Timo, Ph.D., office hour Thu 10-11 Pinni B1042, tel. 3551 8572.

Assistant professors: BERKI Eleni, Ph.D., Pinni B1010, tel. 3551 8563; HYYRÖ Heikki, Ph.D., office hour Fri 13-14 Pinni B1039, tel. 3551 6193; JUNKKARI Marko, Ph.D., office hour Wed 13-14 Pinni B1037, tel. 3551 8574; NIEMI Timo, Ph.D., office hour Mon 12-13 Pinni B1019, tel. 3551 6782, TIAINEN TARJA, Ph.D., office hour Pinni B1057, tel. 3551 8570; ZHANG Zheyang, Ph.D., Pinni B1034, tel. 3551 4045; (Seinäjoki) HELENIUS Marko, Ph.D., office hour Thu 11-12 Pinni B1047, tel. 3551 7239.

Assistent: SAARIKOSKI Jyri, M.Sc.

Amanuensis: (administration) PARVIAINEN Minna, M.Sc.(Admin), leave of absence, acting KOIVULA Merja, Pinni B1025, tel. 3551 7060; (studies) RIKALA Heli, M.Soc.Sc, Pinni B1024, tel. 3551 8566.

Departmental secretary: RUUSUNEN Heli, leave of absence, acting MÄNTYNIEMI Tuula, Pinni B1043, tel. 3551 6616.

Computing officer: TAURIALA Tuomas, Pinni B1058, tel. 3551 6071.

Dosents: NYKÄNEN Pirkko, Ph.D.; TURUNEN Markku, Ph.D..

Researchers: ANTTONEN Jenni, M.Sc., Pinni B2044, tel. 3551 4033; HEIMONEN Tomi, M.Sc., Pinni B2011, tel. 3551 8831; ILVES Mirja, M.A (Psych), leave of absence; JÄMSEN Janne, M.Sc., Pinni B1022, tel. 3551 4046; JÄRVELIN Antti, M.Sc., Pinni B1059, tel. 3551 7971; NIEMENLEHTO Pekka, M.Sc., Pinni B1048, tel. 3551 7593; NÄPPILÄ Turkka, M.Sc., Pinni B1021, tel. 3551 6595; RAISAMO Jukka, M.Sc., Tietopinni 0112, tel. 3551 8882; SAARINEN Rami, M.Sc., TietoPinni 0113, tel. 3551 4035; TALVENSAARI Tuomas, M.Sc., Pinni B1062, tel. 3551 4049; VANHALA Toni, M.Sc., Pinni B2012, tel. 3551 4036.

Visiting teacher: David Ferro, Ph.D.

Adjunct instructors: contact in teaching situations.

Teaching in autumn term 2007

NOTE! Some of the courses and other changes will be announced in the beginning of the semester! Check the latest information from the department web page and the course web pages. It is possible to take some other courses in English as well, depending on the teacher, check info on course web pages.

Period I: 4.9.-19.10.2007 and **period II:** 29.10.-14.12.2007.

General studies

TKOPY2 **Guided planning of studies** (2 ECTS/1 CU) periods I-IV. Only for major subject students. Meetings with teacher tutor.

Basic Studies

Tuition in English

VTEKP2 **Introduction to Interactive Technology** (4 ECTS /3 CU) period I-II. Lectures and exercises. The course will be lectured if enough participants sign up. Please register your interest in the course on the page <http://www.cs.uta.fi/iit/> Not confirmed yet/ei vielä varmistunut.

Intermediate studies

Tuition in Finnish and in English

TKOPA11 **Software Engineering / Ohjelmistotuotanto** (2 ECTS/1 CU) Period I. Lectures FRI 14-16 Pinni ls B4113 (**No lecture on 12.10.**) (NUMMENMAA). First lecture on 14.9.2007.

- TKOPA12 **Projektityö / Project Work** (6-12 ECTS/3-6 CU) periods I-IV. Lectures on FRI 12-14 ls B1096 (12.-19.10) and lr D11 (2.-16.11.) and guidance for groups (PORANEN). Lecture for English speaking students Enrollment for the course at latest on 30.9. on <http://www.cs.uta.fi/pt/>. First lecture on 12.10.2007. **Initial lecture for English speaking students on Fri 12.10.2007 14-16 department's seminar room B1029.**
- TKOPA13 **Introduction to Research Methods** (10 ECTS/5 CU) Lectures will be given in Finnish, but it may be possible to take the course also in English (NYKÄNEN Pirkko). First lecture on 12.9.2007.

Advanced Studies in Computer Science

Tuition in English

- TKOPS301 **Requirements Engineering** (5 ECTS/3 CU) period I. Lectures Tue 12-14 Pinni ls B3117 and Wed 10-12 Pinni ls A3111 (ZHANG). Lectures start on **Tue 11th** September, 2007
- TKOPS117 **Software Project Management/Ohjelmistoprojektin johtaminen** (6-12 ECTS/3-6 CU) periods I-IV. First lecture on **TUE 2.10.** 10-12 department's seminar room Pinni B1029 (PORANEN). The course "Theory of Software Project Management" must be taken before this course. Enrollment for the course at latest on 28.9. at <http://www.cs.uta.fi/pt/>.
- TKOPS140 **Testing, Security and Trust** (5-6 ECTS/3-4 CU) periods II-III. Lectures on Tue 12-14 Pinni ls B3117 and Thu 10-12 Main building ls A06 (BERKI). Lectures start on 30th October, 2007.
- TKOPS118 **Theory of Software Project Management/Ohjelmistoprojektin johtamisen teoria** (3 ECTS/2 CU) period I. First and only lecture on Wed 5.9. 10-12 department's seminar room Pinni B1029. (PORANEN)
- TKOPS407 **Seminar "Software Development - Issues, Trends, and Research Directions"** (4 ECTS/2 cu) periods I-IV. Meetings every other week on Wed 14-16 in department's seminar room Pinni B1029 (BERKI, ZHANG). For more info see <http://www.cs.uta.fi/tkops407/>. Seminar starts on 19.9.2007.

Advanced Studies in Interactive Technology

Tuition in English

- VTEKS213 **Haptic User Interfaces** (5-8 ECTS/2,5-4 CU) period I. Lectures on TUE 14-16 Pinni lr B3116. Exercises for two groups Wed 10-12 ls A2a and Thu 10-12 Pinni ls B3109 (RAISAMO, Roope and Jukka). Lectures start on 4th September, 2007.
- VTEKS302 **The History and Social Implications of Computing** (6 ECTS/3 CU), period I, Lectures on MON 14-16 Pinni lr B3107 and THU 14-16 Pinni lr B3116 (FERRO). Lectures start on Thu 6th September, 2007.
- VTEKS111 **Human Information processing and Interactive Technology** (6 ECTS/3 CU) period I. Lectures (in Finnish) TI 10-12 Pinni ls A1081 and THU 12-14 Pinni ls B4113 (VANHALA). **English introduction on the first lecture on Thu 6.9.2007.**
- VTEKS115 **Introduction to Information Visualization** (3 ECTS/2 cu) period I. Lectures WED 14-17 Pinni ls B1096 (SIIRTOLA). Lectures start on Wed 5.9.2007.
- VTEKS112 **Information Visualization Project Work** (5 ECTS/3 CU) periods I-II. Lectures on TUE 12-14 Pinni ls B3110 (HEIMONEN). Lectures start on Tue 2.10.2007.
- VTEKS105 **New Interaction Techniques** (5 ECTS/3 CU) period II. Lectures on TUE 14-16 Pinni lr B3116 and THU 14-16 Pinni lr B3116 (RÄIHÄ). Lectures start on Tue 30th October, 2007.
- VTEKS106 **Research Project on HCI** (6 ECTS/3 CU) periods I-IV. Contact lecturer for more details. (ISOKOSKI) <http://www.cs.uta.fi/rphci/>
- VTEKJ **Seminar on Postmortem Examinations of Theses in Interactive Technology** (4 ECTS/2 CU). First meeting on Fri 7th September 10-12 (ISOKOSKI). Students are requested to register before the first meeting by sending an email to the instructor (poika@cs.uta.fi). For more details see <http://www.cs.uta.fi/ucit/petit/>.

Spring 2008, preliminary

Period III: 7.1.2008-7.3.2008, period IV: 17.3.-16.5.2008

Intermediate Studies

Tuition in English

- TKOPA12 **Project Work** (6-12 ECTS/3-6 CU) Continuing from fall term.
- VTEKA15 **Introduction to User Interfaces** (5 ECTS/3 CU) period III. Lectures and exercises. The course will be lectured if enough participants sign up. Please register your interest in the course on the page <http://www.cs.uta.fi/öv/ui/eng/>. *Not confirmed yet/Ei varmistunut.*

- VTEKA203 **Human Factors in Interactive Technology** (2 ECTS/1 CU) period IV. Lectures (SURAKKA). The number of students is limited.
- TKOPA13 **Introduction to Research Methods** (10 ECTS/5 CU) periods III-IV. Lectures in Finnish (RÄIHÄ) and guidance.
- VTEKA206 **Usability evaluation methods** (7 ECTS/4 CU) periodit III-IV. *Not confirmed yet/Ei vielä varmistunut.*

Advanced Studies in Computer Science

Tuition in English

- TKOPS130 **Tietämyksen muodostaminen/Knowledge Discovery** (6-8 ECTS/3-4 CU) (ILTANEN).
- TKOPS303 **Metamodelling for Software Development** (5 ECTS/ 3 CU) period IV. Lectures (BERKI).
- TKOPS139 **Software Product Line Engineering** (5 ECTS /3 CU) period III. (ZHANG).
- TKOPS117 **Software Project Management/ Ohjelmistoprojektin johtaminen** (6-12 ECTS / 3-6 CU) Continuing from fall term <http://www.cs.uta.fi/pt/>.
- TKOPS407 **Seminar "Software Development - Issues, Trends, and Research Directions"** (4 ECTS/2 cu) periods I-IV (BERKI, ZHANG).

Advanced Studies in Interactive Technology

Tuition in English

- VTEKS301 **Design and Development of Speech Interfaces** (8 ECTS/4 CU) periods III-IV. *Cancelled*
- VTEKS101 **Groupware** (6 ECTS/3 CU) periods III-IV. Lectures (OVASKA).
- VTEKS106 **Research Project on HCI** (6 ECTS/3 CU) contact lecturer for more details (ISOKOSKI). <http://www.cs.uta.fi/rphci/>

Accepting advanced courses 2007-2008 on M.Sc. programs

X = accepted as compulsory advanced studies on this Master's Program.

V = accepted as optional advanced studies on this Master's Program.

| Advanced studies | vastuuhenkilö | Oppiaine/ subject | | Maisteriohjelma/ M.Sc. Program | | | | | |
|---|------------------------------------|----------------------|-------------|-----------------------------------|------|-------------------|----|----|----|
| | | TKO/ CS | VTEK /IT | ALG | UISD | SD | TH | TJ | IT |
| Tietojenkäsittelyoppi/ Computer Science | | | | | | | | | |
| TKOPS104 Automaatit | Erkki Mäkinen, K08 | X | | X | | | | | |
| TKOPS111 Käsitteellinen mallintaminen | Hannu Kangassalo, S07 | X | | | | | X | X | |
| TKOPS114 Logiikkaohjelmointi | Timo Niemi, K08 | X | | V | V | X | X | | |
| TKOPS117 Ohjelmistoprojektin johtaminen | Timo Poranen, S07-K08 | X | | | V | X | | X | |
| TKOPS118 Ohjelmistoprojektin johtamisen teoria | Timo Poranen, S07 | X | | | V | X | | X | |
| TKOPS301 Requirements Engineering | Zheyang Zhang, S07 | X | | | V | X | | | V |
| TKOPS407 Seminar "Software Development – Issues, Trends, and Research Directions" | Zhang, Berki S07 | X | | | X | X | | | |
| TKOPS139 Software Product Line Engineering | Zhaying Zhang, K08 | X | | | | X | | | |
| TKOPS140 Testing, Security and Trust | Eleni Berki, K08 | X | | | V | X | | | |
| TKOPS125 Tiedon kuvaus ja hallinto | Hannu Kangassalo, S07 | X | | | | | X | X | |
| TKOPS401 Graduseminaari | Pirkko Nykänen | X | | | | | | X | |
| TKOPJ10 Algoritmiikan jatkokoulutusseminaari | Hannu Kangassalo | X | | X | | | | | |

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| TKOPJ104 | Tiedonhallinnan ja käsitteellisen mallintamisen jatkokoulutusseminaari | Hannu Kangassalo | X | | | | | X | | |
| TKOPJ105 | Tietojärjestelmien jatkokoulutusseminaari | Pertti Järvinen | X | | | | | | X | |
| Vuorovaikutteinen teknologia/ Interactive Technology | | | TKO/ CS | VTEK /IT | ALG | UISD | SD | TH | TJ | IT |
| VTEKS301 | <i>Design and Development of Speech Interface</i> | <i>Markku Turunen, K08</i> | X | X | | X | X | | | X |
| VTEKS101 | Groupware | Saila Ovaska, K08 | X | X | | V | | | | X |
| VTEKS213 | Haptic User Interfaces | Roope ja Jukka Raisamo, S07 | X | X | | X | | | | X |
| VTEKS302 | <i>The History and Social Implications of Computing</i> | <i>Ferro, S07</i> | | X | | | | | | X |
| VTEKS111 | Ihmisen tiedonkäsittely ja vuorovaikutteinen teknologia | Toni Vanhala, S07 | | X | | | | | | X |
| VTEKS115 | <i>Introduction to information visualization</i> | <i>Harri Siirtola, S07</i> | | X | | X | | | | X |
| VTEKS112 | Information Visualization Project Work | Tomi Heimonen, S07 | | X | | X | | | | X |
| VTEKS105 | New Interaction Techniques | Kari-Jouko Rähä, S07 | X | X | | X | | | | X |
| VTEKS106 | Research Project on HCI | Poika Isokoski, S07-K08 | | X | | | | | | X |
| VTEKS104 | Tunteet ja sosiaalisuus vuorovaikutteisessa teknologiassa | Veikko Surakka, K08 | | X | | | | | | X |
| VTEKS114 | <i>Uusien vuorovaikutustekniikoiden toteutus</i> | Raisamo, K08 | | X | | X | | | | X |
| VTEKS402 | Vuorovaikutteisen teknologian graduseminaari | Kari-Jouko Rähä, S07-K08 | | X | | | | | | X |
| VTEKJ | Seminar on Postmortem Examinations of Theses in Interactive Technology | Poika Isokoski, S07 | | X | | | | | | X |