

# SOFTWARE COMPETENCE CENTER OSIJEK

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FACULTY OF ELECTRICAL ENGINEERING  
Josip Jurja Strossmayer University of Osijek

Education and Culture  
**TEMPUS**



**COLLABORATIVE INTERNATIONALISATION OF SOFTWARE ENGINEERS IN CROATIA**  
TEMPUS - Joint European Project  
Tempus-JEP-41023-2006 2007-2009



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**COLLABORATIVE INTERNATIONALISATION OF SOFTWARE ENGINEERS IN CROATIA**




**UNIVERSITÄT PADERBORN**



**SVEUČILIŠTE J.J. STROSSMAYERA U. OSIJEKU**




**Sveučilište u Splitu**



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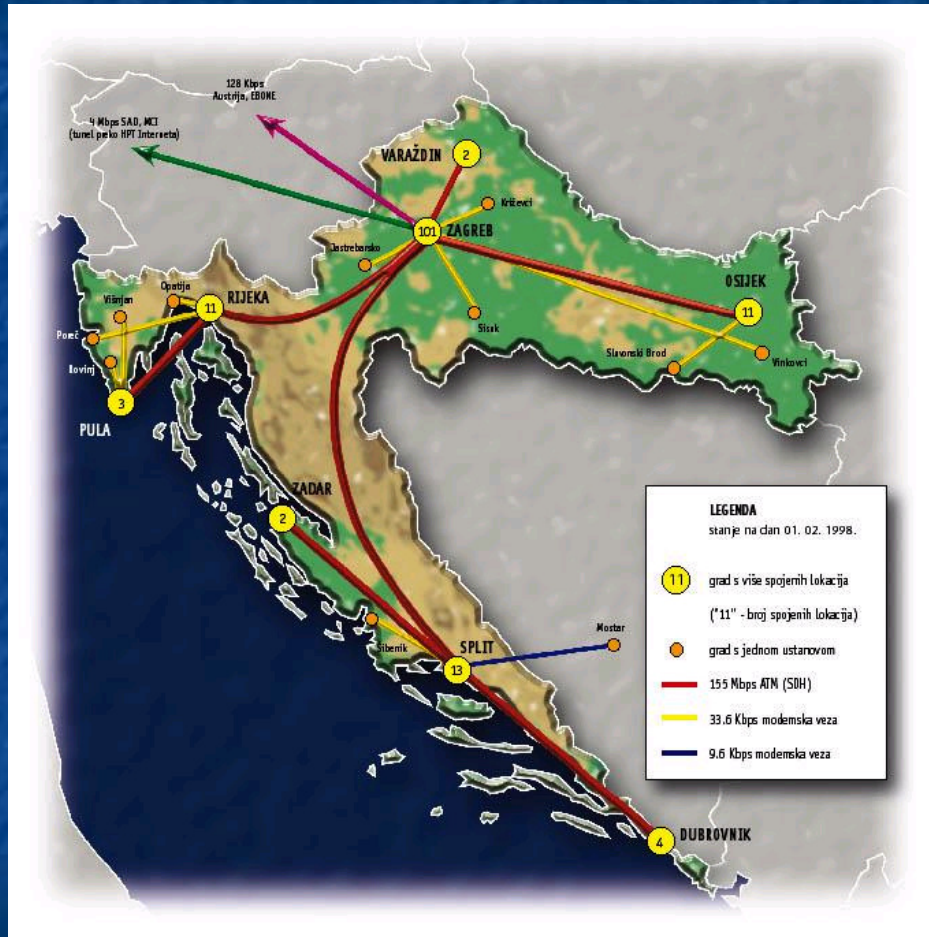
SVEUČILIŠTE J.J. STROSSMAYERA OSIJEK

TRG SV. TROJSTVA 3, 31000 OSIJEK • TEL.: 031 224 102 • FAX.: 031 207 015 • EMAIL: REKTORAT@UNIOS.HR



JOSIP JURAJ STROSSMAYER  
UNIVERSITY OF OSIJEK

# UNIOS POSITION IN CROATIA



- EASTERN PART OF CROATIA
- 287 KM FROM ZAGREB
- 250 KM FROM BUDAPEST
- 5 COUNTIES WITH 900 000 CITIZENS
- 2 AIRPORTS
- HARBOUR ON RIVER DRAVA



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## FACULTIES:

- **AGRICULTURE**
- **CIVIL ENGINEERING**
- **ECONOMICS**
- **EDUCATION**
- **ELECTRICAL ENGINEERING**
- **FOOD TECHNOLOGY**
- **LAW**
- **MECHANICAL ENGINEERING**
- **MEDICINE**
- **TEACHING TRAINING**
- **INST. APPLIED MATHEMATICS**





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## FUNDAMENTAL FACTS IN 2005/2006

- ***HIGH SCHOOL BEGINS IN 1707***
- ***MODERN EDUCATION SINCE 1959 IN FACULTY OF ECONOMICS***
- ***TEACHING STAFF: 611 TOTAL***
  - ***399 PhD***
  - ***369 PROFESSORS***
- ***STUDENTS: 16922 TOTAL***
  - ***2938 NEW IN 1ST YEAR OF 36 BSc STUDIES***
  - ***1628 NEW IN 1ST YEAR OF 13 SPECIALIST STUDIES***
- ***BOLOGNA PROGRAMS SINCE 2005/2006***



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## SCIENTIFIC ACTIVITIES

- *39 SCIENTIFIC PROGRAMS, 140 SCIENTIFIC PROJECTS BY CROATIAN MINISTRY OF SCIENCE*
- *55 PROGRAMS IN 72 PROJECTS IN PARTNERSHIP*
- *72 MSc AND 22 PhD PROMOTIONS AT UNIOS*



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## UNIVERSITY CAMPUS

- *232 048 M<sup>2</sup>*
- *NEW STUDENT HOSTEL 9 909 M<sup>2</sup>, FOR 504 STUDENTS*
- *NEW BUILDING FOR AGRICULTURE FACULTY*
- *NEW BUILDINGS FOR OTHER FACULTIES IN 2ND PHASE*



# FACULTY OF ELECTRICAL ENGINEERING



*Kneza Trpimira 2b, 31000 Osijek, Croatia*

*tel: 031/224 600, fax: 031/224 605*

*[www.etfos.hr](http://www.etfos.hr)*



# FACULTY OF ELECTRICAL ENGINEERING

## BRIEF HISTORY

- 1978. FOUNDED AS A COLLEGE OF ELECTROMECHANICAL ENGINEERING
- 1981. INDEPENDENT UNIVERSITY INSTITUTION
  
- 1985. REGISTERED AS SCIENTIFIC AND RESEARCH ORGANIZATION
- 1990. FACULTY OF ELECTRICAL ENGINEERING, BSc. EDUCATION
- 1991.-1994. *WAR PERIOD, TWO ASSISTANTS AND 5 STUDENTS KILLED*
- 1995. STUDIES PROGRAM IN TWO DIRECTIONS:
  - POWER ENGINEERING
  - ELECTRONICS & AUTOMATION
- 2000. STUDYING DIRECTION: COMPUTING & COMMUNICATIONS
- 2003. NEW DIRECTIONS:
  - POWER ENGINEERING
  - COMMUNICATIONS & INFORMATICS
  - AUTOMATION & PROCESS COMPUTER ENGINEERING
- BOLOGNA PROGRAM 2005/2006:
  - ELECTRICAL ENGINEERING STUDY
  - COMPUTER ENGINEERING

# FACULTY OF ELECTRICAL ENGINEERING

## DEPARTMENT ORGANIZATION

- ***AUTOMATION & PROCESS CONTROL DEPARTMENT***
- ***COMPUTING DEPARTMENT***
- ***COMMUNICATION DEPARTMENT***
- ***FUNDAMENTALS OF ELECTRICAL ENGINEERING,  
MEASUREMENTS AND MATERIALS DEPARTMENT***
- ***MATHEMATICS AND PHYSICS DEPARTMENT***
- ***POWER ENGINEERING AND ELECTRICAL MACHINES  
DEPARTMENT***

# FACULTY OF ELECTRICAL ENGINEERING

## LABORATORIES ORGANIZATION

- **FUNDAMENTALS OF ELECTRICAL ENGINEERING**
- **PHYSICS**
- **POWER ENGINEERING, EL. MACHINES & EL. DRIVES**
- **ELECTRICAL MEASUREMENT**
- **POWER DISTRIBUTIVE NETWORKS**
- **RELAY SAFETY**
- **AUTOMATION & PROCESS CONTROL**
- **DIGITAL ELECTRONICS**
- **COMMUNICATIONS**
- **FUNDAMENTALS COMPUTING & COMPUTER GRAPHICS**
- **COMPUTER ARCHITECTURE**
- **ARTIFICIAL INTELLIGENCE**
- **APPLIED COMPUTING**
- **MULTIMEDIA**
- **OPTOELECTRONICS**
- **BIOMEDICAL ELECTRONIC**

# STUDYING PROGRAMS UNIVERSITY PROGRAM

- **BSc degree PROGRAM-6 semesters:**
  - **COMMON PREPARING STUDY 2 SEMESTERS**
  - **ELECTRICAL ENGN STUDY 4 SEM- 130 stud**
  - **COMPUTER ENGN STUDY 4 SEM- 130 stud**
- **MSc degree PROGRAM- 4 semesters**
  - **POWER ENGN ENGN**
  - **COMMUNICATION**
  - **COMPUTER ENGN**
- **SCIENTIFIC POSTGRADUATE PROGRAM 6 SEM**

# FACULTY OF ELECTRICAL ENGINEERING

## INTERNATIONAL COOPERATION

- ❖ **UNIVERSITY OF APPLIED SCIENCE, BREMEN, GERMANY;**
- ❖ **UNIVERSITY OF APPLIED SCIENCE, SCHWEINFURT, GERMANY;**
- ❖ **UNIVERSITÄT DES SAARLANDES, SAARBRÜCKEN, GERMANY;**
- ❖ **FAKULTÄT MATHEMATIK UND INFORMATIK, PASSAU, GERMANY;**
- ❖ **FACHHOCHSCHULE ALBSTADT, ALBSTADT, GERMANY;**
- ❖ **KANDO KALMAN FACULTY OF EL.ENGN., BUDAPEST, HUNGARY;**
- ❖ **TECHNISCHE UNIVERSITÄT GRAZ, AUSTRIA;**
- ❖ **INT. ZENTRUM FÜR INFORMATIK, DAGSTUHL, GERMANY;**
- ❖ **POLLACK MIHALY COLLEGE OF ENGINEERIG, PECS, HUNGARY;**
- ❖ **FACULTY OF EL. ENGN. & INF. TECHNOL. BRATISLAVA, SLOVAKIA;**
- ❖ **EUROPEAN EMTP-ATP USERS GROUP E.V. OSNABRÜCK, GERMANY;**
- ❖ **TECHNISCHE UNIVERSITAET MUENCHEN, GERMANY;**
- ❖ **ESAIP, ST. BARTHOLEMY, ANGERS, FRANCE.**

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# SWCC-Software Competence Center Osijek

- Kompetentni centri osnivaju se s namjerom:
  - da budu osnovne stanice za razvoj privrednih udruga ili grozdova malih i srednjih poduzeća u odabranim strateškim područjima nacionalnog razvoja
- Ovi centri pokrivaju:
  - razvoj, istraživanje, proizvodnju, plasman, marketing, odnose s javnošću i sl.
- U regionalnom razvoju:
  - koriste kao katalizatori za suradnju između domaćih i inozemnih sudionika.
- Kompetentni centri definiraju:
  - prepoznatljivi regionalni profil i identitet putem zajedničke suradnje i aktivnosti s partnerima u okruženju.

<http://www.etfos.hr/tempus/kisek>

# SWCC u regiji

- Temeljem spoznaja i analize regionalnih endogenih potencijala Slavonije i Baranje:
- direktni dijalog svih aktera regionalnog razvoja
- kompetentni centar za razvoj programskog inženjerstva, računarstva, informatike u široj regiji.
- „kristalizacijska točka“ i regionalni centar
  - S obzirom na položaj (tromeđa Bosne i Hercegovine, Srbije i Mađarske) i endogene potencijale grada Osijeka, ovaj centar mogao bi postati za regionalni razvoj



# CILJEVI SWCC

- -unaprjeđenje suradnje između državnih institucija,
  - Sveučilišta i gospodarstva kroz javno-privatno partnerstvo, zajednička istraživanja i razvoj, izobrazbu, razmjena iskustava, praktični rad u gospodarskim tvrtkama, obavljanje ostalih aktivnosti korisnih za partnere
- -potpora internacionalizaciji Osječkog sveučilišta i regionalnog gospodarstva,
- potpora otvaranju studija za strane studente na engleskom jeziku,
- razmjena nastavnika s inozemnim sveučilištima i tvrtkama,
- usavršavanje nastavnog, stručnog, administrativnog i rukovodećeg kadra kod europskih projektnih partnera,

# CILJEVI SWCC nastavak

- transfer modernog "know-how"
- učenje "na terenu",
- strateško pozicioniranje i etabliranje na regionalnom i EU-tržištu obrazovnog i stručnog branda "Made in Croatia" u području programskog inženjerstva i logistike,
- potpora osiguranju kvalitete obrazovanja području programskog inženjerstva :
  - visokoškolskog (dodiplomski, diplomski, doktorski studiji, internacionalizacija nastave)
  - profesionalnog ("life-long-learning")
- sukladno europskim standardima
- izgradnja strateškog partnerstva s domaćim i inozemnim partnerima za sudjelovanje u nacionalnim i europskim projektima.

# AKTIVNOSTI SWCC

- -stvaranje **web stranice** za informiranje članstva i partnera,
- -stvaranje **baze podataka** o članovima, partnerima, njihovim područjima interesa, obrazovnom profilu i osnovnim podacima te iskustvu,
- -nabava i smještaj **opreme** te uređenje prostora u kojem bi se održavali sastanci i predavanja te istraživački rad,
- -pokretanje **predavanja** iz područja interesa članova ili partnera, koja bi obavljali eminentni stručnjaci iz gospodarstva i sveučilišni nastavnici i istraživači sa partnerskih sveučilišta Tempus projekta,
- -pokretanje **radionica** na određenu temu iz područja koja pokrivaju članovi centra,
- -**formiranje timova** za istraživanje određenog problema, razvijanje timskog rada,
- -**rad sa mladima**, povezivanjem sa osnovnim i srednjim školama ili specijaliziranim udrugama i centrima.

# PODRUČJA I TEME

- -programsko inženjerstvo
- -ispitivanje programske podrške
- -kvaliteta programske podrške
- -toleriranje kvarova
- -rad u stvarnom vremenu
- -operacijski sustavi
- -komunikacijski protokoli
- -multimedija
- -obradba slike
- -sustavi automatizacije i upravljanja
- -ugrađeni sustavi
- -umjetna inteligencija.

# LOKALNI PARTNERI

- Siemens d.d., podružnica Osijek
- Tvornica elektro opreme, 31551 Belišće,
- KIO keramika d.o.o., Orahovica, V.Nazora bb
- Hrvatska elektroprivreda, Operater distribucijskog sustava, Osijek
- Osječko-baranjska županija, Osijek
- Grad Osijek, Poglavarstvo grada,
- Slavonska banka d.d., članica Hypogroup Alpe-Adria, Osijek, Kapucinska 29

# ORGANIZACIJSKI ODBOR

- Prof.dr.sc.Željko Hocenski,
  - koordinator za Sveučilište J.J.Strossmayera, predsjednik
- Prof.dr.sc.Franjo Jović, dopredsjednik
- Doc.dr.sc.Goran Martinović, dopredsjednik
- Prof.dr.sc.Drago Žagar,
  - prorektor Sveučilišta J.J.Strossmayera
- Prof.dr.sc.Snježana Rimac-Drlje
- Prof.dr.sc.Davor Antičić
- Doc.dr.sc.Ninoslav Slavek

# ČLANSTVO

- Mr.sc.Željko Štanfel, Castle worldwide, Morisville, NC, USA
- Mr.sc.Ljubivoj Cvitaš, Siemens d.d.
- Mr.sc. Alfonzo Baumgartner, asistent
- Suzana Vasilić, dipl.inž., Privredna banka Zagreb
- Željko Lasinger, dipl.inž., Ericsson- Nikola Tesla, Zagreb
- Igor Novak, dipl.inž.,Slavonska banka d.d., Osijek
- Ivana Magušić, dipl.inž., HEP ODS Elektroslavonija , Osijek
- Tomislav Keser, dipl.inž., asistent
- Mladen Antunović, dipl.inž., asistent
- Krešimir Nenadić, dipl.inž., asistent
- Ivan Aleksi, dipl.inž., znanstveni novak
- Marina Pešut, dipl.inž., znanstvena novakinja
- Damir Filko, dipl.inž., znanstveni novak
- Miran Karić, dipl.inž., znanstveni novak
- Tomislav Matić, dipl.inž., asistent, webmaster, administrator
- Vuković Zvonimir, dipl.inž. , Siemens d.d., Osijek
- Stanislav Komlenac, Slavonska banka d.d., Osijek

THE END

*THANK YOU and WELCOME*

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Prof.dr.sc.Željko Hocenski

Zeljko.hocenski@etfos.hr



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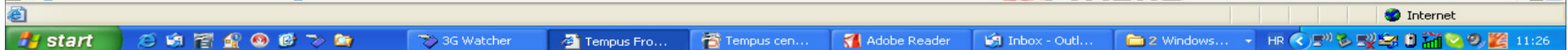
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