

Prof Ivica Crnkovic – Curriculum Vitae, 2021

- Ivica Crnkovic, Chalmers University of Technology, Göteborg, Sweden
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- Born 1955-07-05, Croatia. Married, two children



Education

- Ph.D. in Computer Science from Zagreb University, Croatia, 1991. Thesis: *Large Scale Software System Management*.
- Technical Licentiate in Computer Science from Zagreb University, Croatia, 1983. Thesis: *Cross assembler generator*
- M.Sc. in Theoretical Physics, University of Zagreb, Croatia, 1984, *Solid-state plasma oscillations*
- M.Sc. in Electrical Engineering, University of Zagreb, 1979, *Configurations of Industrial Control System*

Employments and Additional Appointments

- 2014 - Professor in Software Engineering at Chalmers University of Technology, Gothenburg
- 2000 - 2019 Professor in Industrial Software Engineering, at Mälardalen University, Västerås, Sweden
- 1999 - 2000 Senior lecturer at Mälardalen University, Västerås, Sweden
- 1989 - 1999 Development Manager/Project Manager at ABB Automation Products, Västerås Sweden
- 1985 - 1985 Consultant at ABB Automation Products, Västerås, Sweden.
- 1979 – 1985 Software Development Engineer at Koncar, Industrial Systems, Zagreb, Croatia
- 2018 – 2021 Director of Chalmers AI Research Center
- 2014 - 2020 Director of ICT Area of advances at Chalmers
- 2018 - Head of Software Engineering for Cyber-Physical Systems Unit
- 2005 - Guest Professor at University of Zagreb, Faculty of Electrical Engineering and Computing
- 2010- 2018 Professor in Software Engineering at Osijek University, Osijek, Croatia
- 2011- 2014 Director if ITS-EASY Industrial PhD school at MDH
- 2009- 2011 MBA Study director, IT Management, School of Economics and Management, Zagreb
- 2008 - 2011 Chair Software Engineering Division at Mälardalen University
- 2003 - 2008 Chair Software Engineering Laboratory at Mälardalen University
- 2006 - 2008 Director of Software Engineering Master Study
- 2001 - 2003 Vice Chair Department of Computer Science and Engineering, Mälardalen University,
- 2000 - 2003 Chair Computer Science Laboratory Mälardalen University
- 1997 - 1999 Responsible worldwide for Development Environment - at ABB Automation Products
- 1992 -1997 Group and section development manager, ABB Automation Products, Västerås, Sweden

Grants

Grants achieved as the principal investigator or coordinator (in millions of SEK – 1 MSEK = 120 k\$)			
2022-2024	SEMLA: Software Engineering for Machine Learning – integrated approach	Swedish Research Council	3,6 MSEK
2019-2028	AI@Chalmers Research Center	Chalmers Foundation	317 MSEK
2013-2019	ITS-EASY+: Extended Research School in Embedded Software	KKS & 8 companies	40 MSEK
2013-2016	HELPING: Heterogeneous Platform Deployment Modelling of Embedded Systems	Swedish Research Council	2,55 MSEK
2012-2017	RALF3: Software for Embedded High Performance Architectures	SSF	29 MSEK
2012-2013	Linnaeus-Palme Project – Sweden – Croatia (MDH – ETFOS/Osijek) – Students and teacher exchange	Swedish International office	0,1 MSEK
2011-2013	Linnaeus-Palme Project – Sweden – Brazil (MDH – UFBA/Salvador) – Students and teacher exchange	Swedish International office	0,5 MSEK
2011-2017	ITS-EASY – Industrial Research School in Embedded Software	KKS & 10 companies	50 MSEK
2010-2014	CONTESSE – a frame program, - contact-based components for embedded systems	Swedish Research Council	8,5 MSEK
2001-2010	16 different national and international grants		50 MSEK

Graduate and Undergraduate courses developed and taught

- 2019 - Software Engineering for AI Systems - Bachelor course, Chalmers University of Technology
- 2015 - 2021 Software and System Engineering – Bachelor course, Chalmers University of Technology
- 2012 - 2018 Formal Languages and Automata – in cooperation with ETFOS, University Osijek, Croatia
- 2008 – 2018 Software Modeling and Design– in cooperation with ETFOS, University Osijek, Croatia
- 2008 - 2014 Software Engineering Project master course
- 2007 - 2019 Component-based development–in cooperation with FOI, Varazdin, University of Zagreb
- 2003 - 2014 Distributed Software Development – in cooperation with FER, University of Zagreb
- 2001 - 2014 Advanced Component-based software engineering Ph.D. course, 7.5 ECTS
- 2003 – 2005 Component Technologies
- 2000 - Guest lecturer to 30 different courses
- 2005 - 2007 Software Projects management – Zagreb School of Economics and Management
- 2000 - 2007 Software Engineering Course, 15 ETCS
- 2001 - 2003 Research project planning, Ph.D. course, 7.5 ECTS
- 1996 - 2001 Unix Course, 7.5 ECTS
- 1999 Object Oriented programming Using C++, 7.5 ECTS

Curricula Developed

- 2008 – Industrial Software Engineering Masters Program (Masters Program in Software Engineering)
- 2007 – GSEEM –Global Software Engineering Masters Program, a joined program with L’Aquila and Vu Amsterdam University (as a direction of two years Masters Program in Software Engineering)
- 2006 – Two years Masters Program in Software Engineering
- 2006 – One year Masters Program in Software Engineering
- 2003 – Software Engineering Direction as a part of Computer Science Program

Grants:

- Winner student competition SCORE@ICSE 2009, Vancouver
- Winner student competition SCORE@ICSE 2013, San Francisco
- 2 student teams finalists out of 5 teams at SCORE@ICSE 2011, Hawaii

Merits of Relevance

Supervision

- In addition, 17 students have completed the studies, 14 have obtained PhD and 3 Licentiate degrees
- Examiner of more than 50 master thesis

Additional Management activities

- Director of ITS-EASY PhD Industrial research school (2011 -2016)
- Deputy director of MRTC Research centre at Mälardalen University (2011 -2016)
- Director of Software Engineering Master study, 2006 – 2007
- Organizer and coordinator of GSEEM – Global Software Engineering Program, a common master program of 4 EU universities (2007 -)
- Member of several projects and member of reference group of several projects at “The Association of Swedish Engineering Industries”(1996-2002)

Conference and research-events organization

- General Chair of CAIN 2022 (Conference on AI Engineering 2022(, co-located conference with ICSE 2022
- Organizer of WAIN 2021 (Workshop of AI Engineering) at ICSE 2021
- Co-organizer of GE@ICSE0219 (Gender equality workshop), Montreal, Canada
- General Chair of ICSE 2018 (International Conference on Software Engineering), Gothenburg, Sweden
- General Chair of ECSS 2018 (European Computer Science Summit), Gothenburg, Sweden
- General Chair of ICSA (International Conference of Software Architecture) 2017, Gothenburg, Sweden
- General Chair of ECSA (European Conference of Software Architecture) 2016, Dubrovnik, Croatia
- General Chair for ASE (Automated Software Engineering) 2014, Västerås Sweden

- Program Chair of ECSA (European Software Engineering Conference) 2011
- General Chair of European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, ESEC/FSE 2007
- Chair of Steering Committee of CompArch – federated conferences. 2008 –2011
- Member of the steering committee of CBSE symposium
- Member of the steering committee of ESEC/FSE conferences
- Co-chair of the technical board of Chair of Euromicro Conference on Software Engineering and Advanced Applications, 2006 - 2012
- General Chair of Euromicro Conference on Software Engineering and Advanced Applications, 2006
- Program Chair of Euromicro Conference on Software Engineering and Advanced Applications, 2005
- General Chair of Component-based Software Engineering Symposium, CBSE 2006
- General Chair of International Conference on the Quality of Software Architectures, QoSA 2006
- Program Chair CBSE Component-based Software Engineering Symposium, associated event to International Conference of Software engineering (ICSE), CBSE 2004
- Co-chair of 3rd, 4th and 6th Component-based Software Engineering Workshop at International Conference on Software Engineering (ICSE 2001,2002,2003)
- Chair of Component-based Software Engineering Track at Euromicro conference, 2001-2006
- Member of Program Committee of Conference on Software Engineering in Sweden, 2001, 2002, 2003
- Member of Program Committee of more than 40 conferences and workshops related to software engineering

Invited Talks, Keynotes, Tutorials (last 10 years)

- Invited Keynote – CLOSER conference 2021
- Invited Keynote – ECSA conference 2021
- Invited Keynote - ICSOC 2019, Toulouse, France
- Invited keynote – numerous keynotes at seminars, and academic and industrial events 2014-2019
- Invited Tutorials, UFBA Salvador, Brazil, 2013
- Invited Talk, Charles University in Prague, 2012
- Invited Panel, Software Product Lines Conference, Savelador 2012
- Invited Panel, WICSA 2012 (Working Conference on Software Engineering), Helsinki 2012
- Invited Talk, CompArch'12, Bertinoro 2012
- Invited Talk, SEES@ICSE 2012
- Invited Talk, Mipro Conference, Croatia 2012
- Invited Talk, Grenoble University, Resilient systems, Grenoble France, 2011
- Keynote at SERENE conference 2011, Resilient Systems Evolution, Geneva Switzerland, 2011
- Invited Talk, Thessaloniki University, Component Models Classification Framework, Thessaloniki Greece, 2011
- Invited Talk, Charles University, Distributed Software Development Education, Prague Check Republic, 2011
- Keynote at EuSEC 2010 Conference, System and Software Engineering, Stockholm Sweden, 2010
- Keynote at Annual French Software Engineering Symposium, Software Component models, Pau France, 2010
- Invited Talk, Mannheim University, Software Component models, Mannheim Germany, 2009
- Invited Talk, Campinas University, Software Components for Embedded Systems, Campinas Brazil, 2009
- Invited Talk, University of Split, Distributed embedded component-based systems, Split Croatia, 2009
- Keynote at Balkan ICT conference, Education in software engineering, Sofia Bulgaria 2009

Editorial

- Member of the Editorial Board Elsevier Journal of Systems and Software (JSS)
- Member of the Editorial Board Elsevier Journal of Information and Software Technology (IST)
- Co-editor for a special issue of Software Quality Journal, 2012
- Co-editor of a special issue of Elsevier Journal of System Architecture, 2012
- Co-editor of special theme in IEEE Software: Software Components beyond Programming: From Routines to Services; 2011
- Co-editor of special issues of Journal of system Architecture, 2011, 2008
- Co-editor of special issues of Journal of Systems and Software, Component-Based Software Engineering: 2002, 2003, 2006
- Co-editor of a special issue of Journal of Systems and Software, Software Configuration Management, 2006
- Referee for several international journals, including IEEE Software, Information and Software Technology, Software Practice and Experience, etc.

- Opponent and a reviewer to 30 PhD thesis, and member of examination committee in several PhD and lic. theses
- Member of steering group for Introduction of CMM (Capability Maturity Model) and development process improvement at ABB, 1998-1999
- Main designer and developer for Software Development Environment tools used worldwide at ABB Industrial processes, 1993-1999

Publications

No. of citations 7402, h-index 37, i10-index 120 (google scholar, Jan 27, 2022)

Peer-reviewed publications: 250+