

Prof Ivica Crnkovic – Curriculum Vitae, 2010-01-01



- Ivica Crnkovic, Mälardalen University, Västerås, School of Innovation, Design and Engineering, Software Engineering Division, Sweden
- ivica.crnkovic@mdh.se, www.idt.mdh.se/~icc, Telephone: +46 73 960 71 73

Professional Preparation

- 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

- 2000 - 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 Rade Koncar, Industrial Systems, Zagreb, Croatia

Additional Appointments

- 2009- MBA Study director, IT Management, School of Economics and Management, Zagreb
- 2005 - Guest Professor at University of Zagreb, Faculty of Electrical Engineering and Computing
- 2008 - Chair Software Engineering Division at Mälardalen University
- 2003 - 2008 Chair Software Engineering Laboratory at Mälardalen University
- 2006 - 2007 Director of Software Engineering Master Study
- 2001 - 2003 Assistant 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

Other achievements

- Co-organizer of Global Software Engineering European Program – Joint program of Vrije Universiteit Amsterdam, Westminster University London, L'Aquila University and Mälardalen University
- Organizer of Forum Industrial IT – a group consisting of ABB and MdH representative discussing research and marketing trends in initiating different events and projects.
- Owner of IT-comp consultant company.

Graduate and Undergraduate courses developed and taught

- 2008 – Software Modelling – in cooperation with ETFOS, University Osijek, Croatia
- 2008 - Software Engineering Project master course
- 2007 - Component-based development, –in cooperation with FOI, Varazdin, University of Zagreb
- 2002 - Distributed Software Development – in cooperation with FER, University of Zagreb
- 2001 - Advanced Component-based software engineering Ph.D. course, 7.5 ECTS
- 2000 - Guest lecturer to 20 different courses
- 2005 - 2007 Software Projects management – Zagreb School of Economics and Management
- 2000 - 2007 Software Engineering Course, 15 ECTS
- 2001 - 2003 Research project planning, Ph.D. course, 7.5 ECTS
- 1995 - 2001 Unix Course, 7.5 ECTS

- 1999 Object Oriented programming Using C++ , 7.5 ECTS

Grants

Personal grants and grants achieved as the proposal coordinator or coordinator at MDH			
2009-2010	ECSS - Efficient Certification of functional Safety for Software systems	KKS & CC Systems	700 KSEK
2009-2010	F IND - Flexibilitet i Industriella system	KKS & ENEA	530 KSEK
2008 – 2009	BALSOP - Balancing Software Development	KKS & ABB	660 KSEK
2008-2011	DICES – Distributed Component-based Embedded Systems,	Croatian Government	200 K€
2007-2010	ISE. Industrial Software Engineering Master program	KKS	2 000 KSEK
2007-2010	Hi5 A Holistic and Improved Infrastructure for Increased Industrial Impact of research	Vinnova	10 000 KSEK
2007	Hi5 preparation	Vinnova	100 KSEK
2008-2010	EU STREP – Q-Impress – Quality prediction in Service Software	EU-FP7	1 000€ (MDH)
2007-2009	FLEXI - Flexible Global Product Development and Integration		5 500 KSEK (MDH)
2006-2007	SoftIn “Software Introduction to small companies”	EU “Goal 2”	920 KSEK
2004-2007	ARTIST2, Advanced Real-time systems NoE	EU FP6	10 K€ (MDH)
2004	Proposal for Vinnova excellence centre proposal	Vinnova	250 KSEK
2003-2005	FLEXCON – Flexible controllers	SSF	1 200 KSEK (MDH)
2002-2004	DOTS	EU FP5	100 K€ (MDH)
2002-2004	ARTIST - Advanced Real-time systems NoE	EU FP5	80 K € (MDH)
2001-2006	Professorship position at MDH	ABB donation	9 600 KSEK
Member of the core research staff achieving the following Swedish grants			
2006-2011	PROGRESS excellence centre	SSF	50 MSEK
2006-2008	SAVE++	SSF	2 MSEK
2003-2006	SAVE	SSF	18 MSEK
2006-	SAVE-IT industrial school	KKS	20 MSEK

Merits of Relevance

- Supervising currently nine Ph.D. students. Three of the students are industrial PhD students. In addition eighth students have completed the studies, five have obtained PhD degree (2004 Magnus Larsson , 2006:

Rikard Land, Frank Lüders , 2007: Stig Larsson, 2008: Johan Fredriksson, Mikael Åkerholm) and three Licentiate degrees (2003: Christina Wallin , 2004, Goran Mustapic, 2005: Annita Persson-Dahlqvist)

- Director of Software Engineering Master study, 2006 – 2007
- Organiser and coordinator of GSEEM – Global Software Engineering Program, a common master program of 4 EU universities
- 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 –
- 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 -
- 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 several conferences and workshops related to software engineering
- Co-editor of special issues of Journal of Systems and Software, Component-Based Software Engineering: 2002, 2003, 2006
- Co-editor of an issue of Journal of Systems and Software, Software Configuration Management, 2006
- Member of several projects and member of reference group of several projects at “The Association of Swedish Engineering Industries”(1996-2002)
- Referee for several international journals, including IEEE Software, Information and Software Technology, Software Practice and Experience, etc.
- Opponent to 15 PhD thesis, and member of examination committee in several PhD and lic. thesis
- 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

Books

1. Software Configuration management, Ivica Crnkovic, Fraunhofer, IESE, September, 2009
2. Heinz Schmidt , Ivica Crnkovic, George Heineman , Judith Stafford : *Component-Based Software Engineering, 10th International Symposium, CBSE 2007*, Springer, LNCS Series, Vol. 4608, ISBN: 978-3-540-73550-2, 2007

3. Ian Gorton , George Heineman , Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau: *Component-Based Software Engineering, 9th International Symposium, CBSE 2006*, Springer, Lecture Notes in Computer Science 4063, ISBN: ISBN 3-540-35628-2, 2006
4. Ivica Crnkovic, Christine Hofmeister , Ralf Reussner : *Quality of Software Architectures, Second International Conference on Quality of Software Architectures, QoSA*, Springer Berlin / Heidelberg, ISBN: ISBN-10: 3-540-48819-7, 2006
5. George Heineman , Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau : *Component-Based Software Engineering, 8th International Symposium, CBSE 2005*, Springer, Lecture Notes in Computer Science,, ISBN: 3-540-25877-9, August, 2005
6. Ivica Crnkovic, Judith Stafford , Heinz Schmidt , Kurt Wallnau : *Component-based Software engineering - CBSE 2004 Sympoisum*, Springer Verlag, LNCS 3054, ISBN: 3-540-21998-6, 2004-05-17
7. Ivica Crnkovic, Ulf Asklund , Annita Persson-Dahlqvist: *Implementing and Integrating Product Data Management and Software Configuration Management*, Artech House Publishers, ISBN: 1-58053-498-8, 2003
8. Ivica Crnkovic, Magnus Larsson: *Building Reliable Component-Based Software Systems*, Artech House publisher, ISBN: ISBN 1-58053-327-2, 2002

Journals

9. Stig Larsson, Petri Ikonen , Fredrik Ekdahl , Ivica Crnkovic: *Software product integration: A case study-based synthesis of reference models*, Information and Software Technology, vol 51, nr 6, p1066-1080, Elsevier, June, 2009
10. Vittorio Cortellessa , Ivica Crnkovic, Fabrizio Marinelli , Pasqualina Potena: *Experimenting the Automated Selection of COTS Components Based on Cost and System Requirements*, Journal of Universal Computer Science, vol 14, nr 8, p1228-1256, J.UCS, July, 2008
11. Patricia Lago , Henry Muccini , Ljerka Beus-Dukic , Ivica Crnkovic, Sasikumar Punnekkat: *GSEEM: a European Master Programme on Global Software Engineering*, Intrenational Journal on Endengineering Education, vol (To be published), IJEE, May, 2008
12. René Krikhaar , Ivica Crnkovic: *Software Configuration Management*, Science of Computer Programming, vol 65, nr 3, p215-221, Elsevier, April, 2007
13. Gordana Dodig-Crnkovic, Ivica Crnkovic: *Increasing Interdisciplinarity by Distance Learning: Examples Connecting Economics with Software Engineering, and Computing with Philosophy*, e-mentor, vol 19, nr 2, p94-100, WBS, March, 2007
14. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , George Heineman , Kurt Wallnau : *Component-Based Software Engineering of Trustworthy Embedded Systems*, Journal of Systems and Software, vol 80, nr 5, p641-642, Elsevier, January, 2007

15. Rikard Land, Ivica Crnkovic: *Software Systems In-House Integration: Architecture, Process Practices and Strategy Selection*, Journal of Information and Software Technology, vol 49, nr 5, p419-444, Elsevier, September, 2006
16. Ivica Crnkovic, Michel Chaudron (*Technical University Eindhoven*), Stig Larsson: *Component-based Development Process and Component Lifecycle*, Pages, Journal of Computing and Information Technology, vol 13, nr 4, p321-327, University Computer Center, Zagreb, November, 2005
17. Paul Caspi et al. , Ivica Crnkovic: *Guidelines for a Graduate Curriculum on Embedded Software and Systems*, ACM Transactions on Embedded Computing Systems, vol 4, nr 3, p587–611, ACM, August, 2005
18. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau : *Report of the International Symposium on Component-Based Software Engineering*, ACM SIGSOFT Software Engineering Notes, vol 30, nr 3, ACM SIGSOFT, May, 2005
19. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau: *Automated Component-Based Software Engineering*, Journal of Systems and Software, vol Volume 74, nr 1, Elsevier, January, 2005
20. Annita Persson-Dahlqvist, Ivica Crnkovic, Magnus Larsson: *Managing Complex Systems - Challenges for PDM and SCM*, Projects & Profits, vol IV-7, nr Rs 60, p36-42, ICFAI Press, Panjagutta, Indien, July, 2004
21. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau : *6th ICSE Workshop on Component-Based Software Engineering: automated reasoning and prediction*, ACM SIGSOFT Software Engineering Notes, vol 29, nr 3, p1-7, ACM, May, 2004
22. Ivica Crnkovic, Brahim Hnich , Totte Jonsson , Zeynep Kiziltan : *Specification, Implementation, and Deployment of Components*, Communications of the ACM (CACM), vol 45, nr 10, Association for Computing (ACM), October, 2002
23. Ivica Crnkovic, Judith Stafford : *Component-Based Software Engineering: Building Systems from Components*, Software Engineering Notes, vol 27, nr 3, ACM SIGSOFT, May, 2002
24. Ivica Crnkovic, Magnus Larsson: *Challenges of Component-based Development*, Journal of Software Systems, Elsevier Science Home, December, 2001
25. Ivica Crnkovic: *Component-based Software Engineering - New Challenges in Software Development*, Software Focus, John Wiley & Sons, December, 2001
26. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau : *4th ICSE Workshop on Component-Based Software Engineering: Component Certification and System Prediction*, Software Engineering Notes, vol 26, nr 10, ACM SIGSOFT, November, 2001
27. Ivica Crnkovic: *Controlling Software Products*, Automatika, nr nr. 5-6, Automatika, Zagreb, Croatia, June, 1989

28. Ivica Crnkovic: *A Software Configuration Management Model*, Automatika, nr 3-4, Automatika, Zagreb, Croatia, March, 1989

Articles in collection

29. Michel Chaudron (*Technical University Eindhoven*), Ivica Crnkovic: *Component-based Software Engineering*, Software Engineering, Principle and Practice, p 605-628, Wiley, ISBN: 978-0-470-031467-9, Editor(s): Hans van Vliet, May, 2008
30. Ivica Crnkovic: *Component-based Software Engineering for Embedded Systems*, From MDD Concepts to Experiments and Illustrations, p 71-90, IESTE, Ltd, ISBN: 1-905209-59-2, Editor(s): Jean-Phillipe Babau, Joël Champeau, Sébastien Gérard, 2006
31. Ivica Crnkovic, Magnus Larsson, Otto Preiss (*ABB CRC*): *Concerning Predictability in Dependable Component-Based Systems: Classification of Quality Attributes*, Architecting Dependable Systems III,, p pp. 257 – 278, Springer, LNCS 3549, Editor(s): R. de Lemos et al. (Eds.):, 2005
32. Ivica Crnkovic: *Component-Based System Development - Embedded Systems Design*, The ARTIST Roadmap for Research and Development, Volume 3436 / 2005, Springer, ISBN: 3-540-25107-3, Editor(s): Bruno Bouyssounouse, Joseph Sifakis, 2005
33. Frank Lüders, Ivica Crnkovic, Per Runeson (*Lund University*): *Adopting a Component-Based Software Architecture for an Industrial Control System – A Case Study*, Component-Based Software Development for Embedded Systems: An Overview of Current Research Trends, p 232-248, Springer, LNCS 3778, ISBN: 3-540-30644-7, Editor(s): Colin Atkinson, Christian Bunse, Hans-Gerhard Gross, Christian Peper, 2005
34. Ivica Crnkovic, Stig Larsson, Judith Stafford : *Workshop on Component-Based Software Engineering: Composing Systems from Components*, In ECBS 2002 Proceedings, IEEE, ACM, 2002
35. Ivica Crnkovic, Totte Jonsson , Brahim Hnich , Zeynep Kiziltan : *The Definition and Specification of Components*, Building Reliable Component-Based Systems(editor(s):Ivica Crnkovic and Magnus Larsson), 2002., Artech House Publishers, ISBN: 1-58053-327-2, Editor(s): Ivica Crnkovic and Magnus Larsson, 2002
36. Ivica Crnkovic, Benneth Christiansson , Lars Jakobsson : *Component-Based Development Process*, Building Reliable Component-Based Software Systems, Artech House Publishers, ISBN: 1-58053-327-2, Editor(s): Ivica Crnkovic and Magnus Larsson, 2002
37. Ivica Crnkovic, Magnus Larsson, Kung-Kiu Lau , Juliana K. Küster Filipe : *Object-Oriented Design Frameworks: Formal Specification and Some Implementation Issues*, Databases and Information Systems, Fourth International Baltic Workshop, Baltic DB&IS, p pp.237-252, Kluwer Academic Publishers, ISBN: ISBN 0-7923-6823-1, 2001

Conferences and workshops

38. Josip Maras, Ivica Crnkovic: phpModeler - a web model extractor, International Conference on Automated Software Engineering - ASE 2009, Auckland, New Zealand, November, 2009
39. Hongyu Pei-Breivold, Ivica Crnkovic: *Analysis of Software Evolvability in Quality Models*, 35th Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Software Process and Product Improvement (SPPI) Track, IEEE, Patras, Greece, August, 2009
40. Cristina Seceleanu, Ivica Crnkovic: *Transaction level control for application execution on the SegBus Platform*, 33rd Annual IEEE International Computer Software and Applications Conference, IEEE, Seattle, Washington, July, 2009
41. Rikard Land, Jan Carlson, Stig Larsson, Ivica Crnkovic: *Towards Guidelines for a Development Process for Component-Based Embedded Systems*, Workshop on Software Engineering Processes and Applications (SEPA) in conjunction with the International Conference on Computational Science and Applications (ICCSA), p 43-58, Springer, Yongin, Korea, June, 2009
42. Séverine Sentilles, Petr Stepan (*external*), Jan Carlson, Ivica Crnkovic: *Integration of Extra-Functional Properties in Component Models*, 12th International Symposium on Component Based Software Engineering (CBSE 2009), LNCS 5582, Springer Berlin, LNCS 5582, East Stroudsburg University, Pennsylvania, USA, Editor(s):Christine Hofmeister, Grace A. Lewis, Iman Poernomo, June, 2009
43. Ivica Crnkovic, Ivano Malavolta (*University di Aquila*), Henry Muccini (*external*): *A Model-Driven Engineering Framework for Component Models Interoperability*, Proceedings of the 12th International Symposium on Component-Based Software Engineering (CBSE 2009), Springer, LNCS 5582, Editor(s):Christine Hofmeister, Grace A. Lewis, Iman Poernomo, June, 2009
44. Ana Petricic, Luka Lednicki, Ivica Crnkovic: *Using UML for Domain-Specific Component Models*, Fourteenth International Workshop on Component-Oriented Programming, June, 2009
45. Séverine Sentilles, Anders Pettersson, Dag Nyström, Thomas Nolte, Paul Pettersson, Ivica Crnkovic: *Save-IDE - A Tool for Design, Analysis and Implementation of Component-Based Embedded Systems*, Proceedings of the Research Demo Track of the 31st International Conference on Software Engineering (ICSE), Vancouver, May, 2009
46. Ana Petricic, Ivica Crnkovic, Mario Zagar : *Models transformation between UML and a Domain Specific Language*, Eight Conference on Software Engineering Research and Practice in Sweden (SERPS 08), p 10, November, 2008
47. Hongyu Pei-Breivold, Ivica Crnkovic, Rikard Land, Magnus Larsson: *Analyzing Software Evolvability of an Industrial Automation Control System: A Case Study*, The Third International Conference on Software Engineering Advances (ICSEA), IEEE, Sliema, Malta, October, 2008

48. Séverine Sentilles, Aneta Vulgarakis, Tomas Bures, Jan Carlson, Ivica Crnkovic: *A Component Model for Control-Intensive Distributed Embedded Systems*, Proceedings of the 11th International Symposium on Component Based Software Engineering (CBSE2008), p 310-317, Springer Berlin, Karlsruhe, Germany, Editor(s): Michel R.V. Chaudron and Clemens Szyperski, October, 2008
49. Rikard Land, Alexandre Alvaro (*CESAR*), Ivica Crnkovic: *Towards Efficient Software Component Evaluation: An Examination of Component Selection and Certification*, Euromicro SEAA SPPI Track, IEEE, Parma, Italy, September, 2008
50. Séverine Sentilles, John Håkansson (*Department of Information Technology, Uppsala University*), Paul Pettersson, Ivica Crnkovic: *Save-IDE – An Integrated development environment for building predictable component-based embedded systems*, Proceedings of the 23rd IEEE/ACM International Conference on Automated Software Engineering (ASE 2008), L'Aquila, Italy, September, 2008
51. Hongyu Pei-Breivold, Ivica Crnkovic, Rikard Land, Stig Larsson: *Using Dependency Model to Support Software Architecture Evolution*, 4th Intl. ERCIM Workshop on Software Evolution and Evolvability (Evol'08), at the 23rd IEEE/ACM Intl. Conf. on Automated Software Engineering, IEEE, L'Aquila, Italy, September, 2008
52. Mikael Åkerholm, Kristian Sandström, Ivica Crnkovic: *Introducing Component Based Software Engineering at an Embedded Systems Sub-Contractor*, 34th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA), IEEE, Parma, Italy, September, 2008
53. Séverine Sentilles, Florian Noyrit, Ivica Crnkovic: *Collaboration between Industry and Research for the Introduction of Model-Driven Software Engineering in a Master Program*, Educators Symposium at the 11th International Conference MODELS 2008, p 75-80, Toulouse, France, September, 2008
54. Hongyu Pei-Breivold, Ivica Crnkovic, Peter Eriksson : *Analyzing Software Evolvability*, IEEE International Computer Software and Applications Conference (COMPSAC 2008), Turku, Finland, July, 2008
55. Rikard Land, Laurens Blankers, Michel Chaudron (*Technical University Eindhoven*), Ivica Crnkovic: *COTS Selection Best Practices in Literature and in Industry*, 10th International Conference on Software Reuse (ICSR), Springer, Beijing, China, May, 2008
56. Radu Dobrin, Ivica Crnkovic, Sasikumar Punnekkat, Damir Isovici, GENESIS consortium : *GENESIS - A Framework for Global Engineering of Embedded Systems*, Software Engineering in East and South Europe (SEESE), ACM, Leipzig, Germany, May, 2008
57. Vittorio Cortaliessa (*University of L'Aquila*), Ivica Crnkovic, Pasqualina Potena, Fabrizio Marinelli (*Laboratoire d'Informatique de l'Ecole Polytechnique, France*): *Driving the selection of COTS components on the basis of system requirements*, Automated Software Engineering (ASE) 2007, IEEE, Atlanta, US, November, 2007

58. Hongyu Pei-Breivold, Ivica Crnkovic, Peter Eriksson : *Evaluating Software Evolvability*, Proceedings of the 7th Conference on Software Engineering and Practice in Sweden (SERPS), Göteborg, Sweden, October, 2007
59. Ivica Crnkovic, Michel Chaudron (*Technical University Eindhoven*), Séverine Sentilles, Aneta Vulgarakis: *A Classification Framework for Component Models*, Proceedings of the 7th Conference on Software Engineering and Practice in Sweden, Göteborg, Sweden, October, 2007
60. Frank Lüders, Ivica Crnkovic, Daniel Flemström, Anders Wall: *A Prototype Tool for Software Component Services in Embedded Real-Time Systems*, Proc. Real-Time in Sweden 2007, Västerås, Sweden, August, 2007
61. Séverine Sentilles, Aneta Vulgarakis, Ivica Crnkovic: *A Model-Based Framework for Designing Embedded Real-Time Systems*, Proceedings of the Work-In-Progress (WIP) track of the 19th Euromicro Conference on Real-Time Systems (ECRTS 2007), Pisa, Italy, July, 2007
62. Patricia Lago , Henry Muccini , Ljerka Beus-Dukic , Ivica Crnkovic, Sasikumar Punnekkat, Hans Van Vliet : *Towards a European Master Programme on Global Software Engineering*, 20th Conference on Software Engineering Education and Training (CSEE&T 2007), Dublin, July, 2007
63. Ivica Crnkovic, Hongyu Pei-Breivold: *Tutorial: Emerging Technologies in Industrial Context - Component-Based and Service-Oriented Software Engineering*, 31st IEEE International Computer Software and Applications Conference (COMPSAC), Beijing, China, July, 2007
64. Mikael Åkerholm, Joakim Fröberg, Kristian Sandström, Ivica Crnkovic: *A Model for Reuse and Optimization of Embedded Software Components*, 29th International Conference on Information technology Interface, (ITI 2007), IEEE, Cavtat, Croatia, June, 2007
65. Ivica Crnkovic, Lars Grunske : *Evaluating Dependability Attributes of Component-Based Specifications*, International Conference on Software Engineering (ICSE), p 157-158, IEEE, Minneapolis, May, 2007
66. Ivica Crnkovic, Michel Chaudron (*Technical University Eindhoven*), Stig Larsson: *Component-based Development Process and Component Lifecycle*, International Conference on Software Engineering Advances, ICSEA'06, IEEE, Tahiti, French Polynesia, October, 2006
67. Frank Lüders, Ivica Crnkovic, Per Runeson (*Lund University*): *Evaluation of a Tool for Supporting Software Component Services in Embedded Real-Time Systems*, Proceedings of the 6th Conference on Software Engineering and Practice in Sweden, p 49-54, Umeå University, Umeå, Sweden, October, 2006
68. Rikard Land, Stig Larsson, Ivica Crnkovic: *Software In-House Integration – Quantified Experiences from Industry*, Euromicro Conference, Track on Software Process and Product Improvement, IEEE, Cavtat, Croatia, Editor(s):Paul Grünbacher, August, 2006

69. Rikard Land, Jan Carlson, Ivica Crnkovic, Stig Larsson: *Merging In-House Developed Software Systems – A Method for Exploring Alternatives*, Quality of Software Architecture, University of Karlsruhe, Västerås, Sweden, June, 2006
70. Frank Lüders, Daniel Flemström, Anders Wall, Ivica Crnkovic: *A Prototype Tool for Software Component Services in Embedded Real-Time Systems*, Component-Based Software Engineering: 9th International Symposium, CBSE 2006., p 222 - 237, Springer - LNCS, Västerås, Sweden, Editor(s): Ian Gorton, George T. Heineman, Ivica Crnkovic, Heinz W. Schmidt, Judith A. Stafford, Clemens A. Szyperski, Kurt Wallnau, June, 2006
71. Ivica Crnkovic, Karmela Aleksić-Maslač , Hrvoje Jerković : *Holistic approach in Education – Filling the Gap between Different Disciplines*, 28th International Conference on Information Technology Interfaces, 2006., p 35-40, IEEE, Cavtat, Croatia, June, 2006
72. Magnus Larsson, Christer Norström, Anders Wall, Ivica Crnkovic: *Technology Transfer: Why some Succeed and some don't*, Technology Transfer Workshop, ICSE 2006, ACM, Shanghai, May, 2006
73. Gordana Dodig-Crnkovic, Ivica Crnkovic: *Professional Ethics in Software Engineering Curricula*, Cross-disciplinarity in Engineering Education, CeTUSS, Uppsala, December, 2005
74. Rikard Land, Laurens Blankers, Stig Larsson, Ivica Crnkovic: *Architectural Concerns When Selecting an In-House Integration Strategy – Experiences from Industry*, Fifth IEEE/IFIP Conference on Software Architecture (WICSA), IEEE, Pittsburgh, PA, November, 2005
75. Johan Fredriksson, Massimo Tivoli, Ivica Crnkovic: *A component-based development framework for supporting functional and non-functional analysis in control system design*, 20th IEEE/ACM International Conference on Automated Software Engineering (ASE 2005), p 368-371, ACM 2005, Long Beach, CA, USA, November, 2005
76. Ivica Crnkovic, Vikram Jamwal (*K R School of Information Technology, IIT Bombay, Mumbai. India*): *Components and Services Session Report*, 5th Working IEEE/IFIP Conference on Software architecture, WICSA, p 269-271, IEEE, Pittsburgh, PA, US, November, 2005
77. Rikard Land, Laurens Blankers, Stig Larsson, Ivica Crnkovic: *Architectural Concerns When Selecting an In-House Integration Strategy – Experiences from Industry*, 5th Working IEEE/IFIP Conference on Software architecture, WICSA, p 274-275, IEEE, Pittsburgh, PA, USA, November, 2005
78. Rikard Land, Laurens Blankers, Stig Larsson, Ivica Crnkovic: *Software Systems In-House Integration Strategies: Merge or Retire - Experiences from Industry*, Fifth Conference on Software Engineering Research and Practice in Sweden (SERPS), p 21-30, Mälardalen University, Västerås, Sweden, October, 2005
79. Rikard Land, Ivica Crnkovic, Stig Larsson, Laurens Blankers: *Architectural Reuse in Software Systems In-house Integration and Merge – Experiences from Industry*, First International Conference on the Quality of Software Architectures (QoSA 2005), Springer Verlag, Erfurt, Germany, September, 2005

80. Rikard Land, Ivica Crnkovic, Stig Larsson: *Process Patterns for Software Systems In-house Integration and Merge – Experiences from Industry*, 31st Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Track on Software Process and Product Improvement (SPPI), IEEE, Porto, Portugal, Editor(s):Paul Grünbacher, August, 2005
81. Martin Törngren , DeJiu Chen (KTH), Ivica Crnkovic: *Component based vs. Model based development: A comparison in the context of Vehicular Embedded Systems*, Euromicro SEAA, IEEE, Porto, Portugal, August, 2005
82. Massimo Tivoli, Johan Fredriksson, Ivica Crnkovic: *A component-based approach for supporting functional and non-functional analysis in control loop design*, Tenth International Workshop on Component-Oriented Programming, Glasgow, Scotland, July, 2005
83. Stig Larsson, Ivica Crnkovic: *Case Study: Software Product Integration Practices*, Product Focused Software Process Improvement: 6th International Conference, PROFES 2005, Springer, Lecture Notes in Computer Science, Volume 3547 / 2005, Oulu, July, 2005
84. Rikard Land, Ivica Crnkovic, Stig Larsson: *Concretizing the Vision of a Future Integrated System - Experiences from Industry*, 27th International Conference Information Technology Interfaces (ITI), IEEE, Cavtat, Croatia, June, 2005
85. Ivica Crnkovic, Stig Larsson, Michel Chaudron (Technical University Eindhoven): *Component-based Development Process and Component Lifecycle*, 27th International Conference Information Technology Interfaces (ITI), IEEE, Cavtat, Croatia, June, 2005
86. Ivica Crnkovic: *Component-based Software Engineering for Embedded Systems*, International Conference on Software engineering, ICSE'05, ACM, St. Luis, USA, May, 2005
87. Ivica Crnkovic, Jakob Axelsson, Susanne Graf , Magnus Larsson, Rob van Ommering , Kurt Wallnau: *COTS Component-Based Embedded Systems - A Dream or Reality?*, 4th International Conference, ICCBSS 2005, Springer, Bilbao, Spain, February, 2005
88. Annita Persson-Dahlqvist, Ivica Crnkovic, Ulf Asklund : *Quality Improvements by Integrating Development Processes*, 11th Asia-Pacific Software Engineering Conference, IEEE, Busan, Korea, November, 2004
89. Rikard Land, Ivica Crnkovic: *Existing Approaches to Software Integration - and a Challenge for the Future*, Fourth Conference on Software Engineering Research and Practice in Sweden, Linköping, Sweden, October, 2004
90. Mikael Åkerholm, Johan Fredriksson, Kristian Sandström, Ivica Crnkovic: *Quality Attribute Support in a Component Technology for Vehicular Software*, Fourth Conference on Software Engineering Research and Practice in Sweden, Linköping, Sweden, October, 2004
91. Hans Hansson, Mikael Åkerholm, Ivica Crnkovic, Martin Törngren : *SaveCCM – a component model for safety-critical real-time systems*, Euromicro Conference, Special Session Component Models for Dependable Systems, IEEE, Rennes, France, September, 2004

92. Stig Larsson, Ivica Crnkovic, Fredrik Ekdahl : *On the Expected Synergies between Component-Based Software Engineering and Best Practices in Product Integration*, Euromicro Conference, IEEE, Rennes, France, August, 2004
93. Goran Mustapic, Anders Wall, Christer Norström, Ivica Crnkovic, Kristian Sandström, Joakim Fröberg, Johan Andersson: *Real World Influences on Software Architecture - Interviews with Industrial Experts*, IEEE Working Conference on Software Architectures, Oslo, Norway, IEEE, Oslo, Editor(s):IEEE, June, 2004
94. Ivica Crnkovic, Magnus Larsson: *Classification of quality attributes for predictability in component-based systems*, DSN 2004 Workshop on Architecting Dependable Systems, IEEE, Florence, Italy, June, 2004
95. Ivica Crnkovic: *Component-based approach for Embedded Systems*, Ninth International Workshop on Component-Oriented Programming, Oslo, June, 2004
96. Magnus Larsson, Ivica Crnkovic: *Possible Implications of Design Decisions Based on Predictions*, 26th International Conference on Information technology, IEEE, Dubrovnik, Croatia, April, 2004
97. Goran Mustapic, Ivica Crnkovic: *Propagation of quality attributes in a layered design*, Software Engineering Research Group, Lund, October, 2003
98. Rikard Land, Ivica Crnkovic, Christina Wallin: *Integration of Software Systems – Process Challenges*, Euromicro Conference, Track on Software Process and Product Improvement, IEEE, Antalya, Turkey, September, 2003
99. Christina Wallin, Ivica Crnkovic: *Three Aspects of Successful Software Development Projects, “When are projects canceled, and why?”*, Euromicro Conference, IEEE, Balek, Turkey, September, 2003
100. Rikard Land, Ivica Crnkovic: *Software Systems Integration and Architectural Analysis – A Case Study*, International Conference on Software Maintenance, IEEE, Amsterdam, Netherlands, September, 2003
101. Ivica Crnkovic, Igor Cavrak , Johan Fredriksson, Rikard Land, Mario Zagar , Mikael Åkerholm: *On the Teaching of Distributed Software Development*, 25th International Conference INFORMATION TECHNOLOGY INTERFACES, IEEE, Dubrovnik, Croatia, June, 2003
102. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau : *6th ICSE Workshop on Component-Based Software Engineering: Automated Reasoning and Prediction*, 25th International Conference of Software Engineering, ICSE, IEEE, Portland, Oregon, May, 2003
103. Ivica Crnkovic, Rikard Land, Andreas Sjögren: *Is Software Engineering Training Enough for Software Engineers?*, 16th International Conference on Software Engineering Education and Training, IEEE, Madrid, March, 2003

104. Gordana Dodig-Crnkovic, Ivica Crnkovic: *Computing Curricula: Teaching Theory of Science to Computer Science Students*, Hawaii International Conference on Education, Honolulu, Hawaii, USA, January, 2003
105. Christina Wallin, Stig Larsson, Fredrik Ekdahl , Ivica Crnkovic: *Combining Models for Business Decisions and Software Development*, Euromicro Conference, IEEE, Dortmund, September, 2002
106. Frank Lüders, Ivica Crnkovic, Andreas Sjögren: *A Component-Based Software Architecture for Industrial Control*, Proc. Third Working IEEE/IFIP Conference on Software Architecture - WICSA 3., Kluwer Academic Publishers, Montreal, Canada, August, 2002
107. Ivica Crnkovic: *Component-based Software Engineering: Building systems from components*, Proceedings, COMPSAC 2002 Conference, IEEE, Oxford, UK, August, 2002
108. Frank Lüders, Ivica Crnkovic, Andreas Sjögren: *Case Study: Componentization of an Industrial Control System*, Proc. 26th Annual International Computer Software and Applications Conference - COMPSAC 2002., IEEE Computer Society Press, Oxford, UK, August, 2002
109. Anders Wall, Magnus Larsson, Christer Norström, Ivica Crnkovic: *Using Prediction Enabled Technologies for Embedded Product Line Architectures*, ICSE workshop on 5th ICSE Workshop on Component-Based Software Engineering, May, 2002
110. Ivica Crnkovic, Daniel Svesson : *Information Management for Multi-Technology Products*, 7th INTERNATIONAL DESIGN CONFERENCE, SIG of the Design Society, Dubrovnik, Croatia, May, 2002
111. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau : *5th ICSE workshop on component-based software engineering: benchmarks for predictable assembly*, 24th international conference on Software engineering, ACM Press, Orlando, Florida, May, 2002
112. Ivica Crnkovic, Annita Persson-Dahlqvist, Daniel Svesson : *Managing Complex Systems – Challenges for PDM and SCM*, IEEE Asia-Pacific Conference on Quality Software, IEEE, Hong Kong, December, 2001
113. Frank Lüders, Ivica Crnkovic: *Experiences with Component-Based Software Development in Industrial Control*, Proceedings of the First Swedish Conference on Software Engineering Research and Practice - SERP '01, p 32-36, Blekinge Institute of Technology, Ronneby, Sweden, Editor(s):PerOlof Bengsson, October, 2001
114. Ivica Crnkovic, Magnus Larsson: *Component-based Software Engineering - New Paradigm of Software Development*, Invited talk & Invited report, MIPRO 2001 proceedings, Opatija, Croatia, May, 2001
115. Annita Persson-Dahlqvist, Ivica Crnkovic, Magnus Larsson: *Managing Complex Systems - Challenges for PDM and SCM*, Software Configuration Management, SCM 10. 23th ICSE, Toronto, Canada, May, 2001

116. Magnus Larsson, Ivica Crnkovic: *Configuration Management for Component-based Systems*, Software Configuration Management - SCM 10, 23th ICSE, Toronto, Canada, May, 2001
117. Ivica Crnkovic, Heinz Schmidt , Judith Stafford , Kurt Wallnau : *4th Workshop on Component-Based Software Engineering*, 23nd International Conference on Software Engineering (ICSE2001), ACM, IEEE, Toronto, Canada, May, 2001
118. Ivica Crnkovic, Magnus Larsson, Frank Lüders: *Implementation of a Software Engineering Course for Computer Science Students*, Proceedings, APSEC, Asia-Pacific Software Engineering Conference, Singapore, December, 2000
119. Damir Isovica, Ivica Crnkovic, Markus Lindgren: *System Development with Real-Time Components*, Proceedings of the International ECOOP2000 Workshop 22 - Pervasive Component-based systems, Sophia Antipolis and Cannes, France, June, 2000
120. Magnus Larsson, Ivica Crnkovic: *Component Configuration Management*, ECOOP Conference, Workshop on Component Oriented Programming Nice, France, June, 2000
121. Ivica Crnkovic, Magnus Larsson, Frank Lüders: *Software Process Measurements using Software Configuration Management*, Proceedings, The 11th European Software Control and Metrics Conference, Munich, Germany, May, 2000
122. Ivica Crnkovic, Magnus Larsson, Frank Lüders: *The Different Aspects of Component Based Software Engineering*, Proceedings, MIPRO (Microprocessor systems, Process control and Information Syses) Conference, Opatija, Croatia, May, 2000
123. Ivica Crnkovic, Magnus Larsson: *A Case Study: Demands on Component-based Development*, Proceedings, 22th International Conference of Software Engineering, ACM, IEEE, Limerick, Ireland, May, 2000
124. Magnus Larsson, Ivica Crnkovic: *Development Experiences of a Component-based System*, Proceedins 7th Annual IEEE International Conference and Workshop on the Engineering of Computer Based Systems, IEEE, Edinburgh, Scotland, April, 2000
125. Ivica Crnkovic, Juliana K. Küster Filipe , Magnus Larsson, Kung-Kiu Lau : *Object-Oriented Design Frameworks: Formal Specification and Some Implementation Issues*, Proceedings, FOURTH IEEE INTERNATIONAL BALTIC WORKSHOP ON DB AND IS, Vilnius, Lithuania, January, 2000
126. Ivica Crnkovic, Magnus Larsson, Frank Lüders: *State of the Practice: Component-based Software Engineering Course*, Proceedings, Workshop, ICSE 2000 conference, 3rd International Workshop o, January, 2000
127. Magnus Larsson, Ivica Crnkovic: *Component Configuration Management*, ECOOP Conference, Workshop on Component Oriented Programming, Nice, France, January, 2000

128. Ivica Crnkovic, Magnus Larsson, Kung-Kiu Lau : *Component Configuration Management for Frameworks*, Proceedings, Asia-Pacific Software Engineering Conference, Workshop on Software Architecture and Components, Takamatsu, Japan, December, 1999
129. Peter Funk, Ivica Crnkovic: *Reuse, Validation and Verification of System Development Processes*, The First International Workshop on the Requirements Engineering Process, DEXA'99, Florence, September, 1999
130. Ivica Crnkovic, Peter Funk, Magnus Larsson: *Processing Requirements by Software Configuration Management*, euromicro 99, proceedings of the 25th EUROMICRO conference, IEEE, Computer society, Milano, Italy, September, 1999
131. Magnus Larsson, Ivica Crnkovic: *New Challenges for Configuration Management*, System Configuration Management, SCM-9, proceedings, Springer, Toulouse, France, August, 1999
132. Ivica Crnkovic: *Why do some mature organizations not use mature CM?*, System Configuration Management, proceedings, Springer, Toulouse, France, August, 1999
133. Peter Funk, Ivica Crnkovic: *Case-Based Reasoning for Reuse and Validation of System Development Processes*, in Proceedings for Workshop on Practical Case-Based Reasoning Strategies for Building and Maintaining Corporate Memories, ICCBR'99, Seon, Germany, July, 1999
134. Ivica Crnkovic, Magnus Larsson: *Managing Standard Components in Large Software Systems*, Proceedings on 2nd workshop on Component Based Software Engineering, Los Angeles, USA, May, 1999
135. Ivica Crnkovic: *A Change Process Model in an SCM Tool*, Euromicro 98, proceedings of the 25th EUROMICRO conference, IEEE, Computer society, Västerås, Sweden, September, 1998
136. Ivica Crnkovic: *Change Measurements in an SCM process*, System Configuration Management SCM-8 proceedings, Springer, Brussels, Belgium, January, 1998
137. Ivica Crnkovic: *Distributed Development Project using WWW*, mipro-97 , Proceedings on 19h international multimedia conference, Opatija, Croatia, May, 1997
138. Ivica Crnkovic: *Experience with Change-oriented SCM Tools*, Proceedings Software Configuration Management SCM-7, Springer, Boston, MA, USA, May, 1997
139. Ivica Crnkovic: *Experience of Using a Simple SCM Tool in a Complex Development Environment*, Proceedings, 8th Software Configuration Management Workshop, Springer, Berlin, Germany, March, 1996

MRTC reports

140. Classification and survey of component models, Juraj Feljan, Luka Lednicki, Josip Maras, Ana Petricic, Ivica Crnkovic, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-242/2009-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, December, 2009

141. Hongyu Pei-Breivold, Ivica Crnkovic: *A Survey of Software Architecture Evolvability*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-239/2009-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, September, 2009
142. Tomas Bures, Jan Carlson, Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis: *ProCom - the Progress Component Model Reference Manual, version 1.0*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-230/2008-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, June, 2008
143. Tomas Bures, Jan Carlson, Ivica Crnkovic, Séverine Sentilles, Aneta Vulgarakis: *Progress Component Model Reference Manual - version 0.5*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-225/2008-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, April, 2008
144. Hongyu Pei-Breivold, Ivica Crnkovic: *Using Software Evolvability Model for Evolvability Analysis*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-222/2008-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, February, 2008
145. Alexandre Alvaro (*CESAR*), Rikard Land, Ivica Crnkovic: *Software Component Evaluation: A Theoretical Study on Component Selection and Certification*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-217/2007-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, November, 2007
146. Rikard Land, Peter Thilenius (*School of Business, Mälardalen University*), Stig Larsson, Ivica Crnkovic: *A Quantitative Survey on Software In-house Integration*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-203/2006-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, July, 2006
147. Ivica Crnkovic, DeJiu Chen (*KTH*), Johan Fredriksson, Hans Hansson, Jörgen Hansson, Joel Huselius, Ola Larses, Joakim Fröberg, Mikael Nolin, Thomas Nolte, Christer Norström, Kristian Sandström, Aleksandra Tesanovic, Martin Törngren, Simin Nadjm-Tehrani, Mikael Åkerholm: *Component-Based Development of Safety-Critical Vehicular Systems*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-190/2005-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, September, 2005
148. Rikard Land, Stig Larsson, Ivica Crnkovic: *Interviews on Software Integration*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-177/2005-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, April, 2005
149. Goran Mustapic, Anders Wall, Christer Norström, Ivica Crnkovic, Kristian Sandström, Joakim Fröberg, Johan Andersson: *Influences between Software Architecture and its Environment in Industrial Systems – a Case Study*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-164/2004-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, February, 2004
150. Ivica Crnkovic, Goran Mustapic, Mikael Åkerholm: *Modern technologies for modeling and development of process information systems*, MRTC report ISSN 1404-3041 ISRN MDH-

MRTC-100/2003-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, May, 2003

151. Ivica Crnkovic, Judith Stafford , Stig Larsson: *Workshop on Component-based Software Engineering: COMPOSING SYSTEMS FROM COMPONENTS*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-72/2002-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, May, 2002
152. Annita Persson-Dahlqvist, Ulf Asklund , Ivica Crnkovic, Magnus Larsson, Daniel Svesson : *PDM and SCM: Similarities and differences*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-54/2002-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, January, 2002
153. Ivica Crnkovic, Magnus Larsson: *Component-Based Development - a New Approach in Software Development*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-41/2001-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, May, 2001
154. Ivica Crnkovic: *Technology Park Västerås, Sweden - Modern technology for small companies*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-35/2001-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, May, 2001
155. Ivica Crnkovic, Magnus Larsson: *Component Based Software Engineering - State of the Art*, MRTC report ISSN 1404-3041 ISRN MDH-MRTC-15/2000-1-SE, Mälardalen Real-Time Research Centre, Mälardalen University, January, 2000
156. Johan Fredriksson, Massimo Tivoli, Ivica Crnkovic: *A component-based development framework for supporting functional and non-functional analysis in control system design*, Technical Report, MRTC, June, 2005