

Prof. ONUR DEMİRÖRS

Personal Information

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Advising Theses

- DEMİRÖRS O., A Practical measurement capability model for software organizations utilizing agile approaches, Doctorate, M.Salmanoğlu(Student), 2018
- DEMİRÖRS O., Modeling patterns and cultures of embedded software development projects, Doctorate, D.Akdur(Student), 2018
- DEMİRÖRS O., A Methodology to develop process ontology from organizational guidelines written in natural language, Doctorate, Ö.Gürbüz(Student), 2017
- DEMİRÖRS O., Continuous process improvement in software organizations utilizing maturity models, Doctorate, A.Uskarcı(Student), 2017
- DEMİRÖRS O., ÖZCAN TOP Ö., Assess agility : agility assessment approach supported with an automated web based agility assessment tool, Postgraduate, O.Ege(Student), 2017
- DEMİRÖRS O., Demirörs O., The influence of modularity representation and presentation medium on the understandability of business process models, Doctorate, A.Dikici(Student), 2016
- DEMİRÖRS O., Gov-PCDM: Government porcess capability determination model, Doctorate, E.Gökalp(Student), 2016
- DEMİRÖRS O., A Method and tool support for integrated business process modeling and ontology development, Doctorate, A.Coşkunçay(Student), 2016
- DEMİRÖRS O., QEVM: quality integrated earned value management, Doctorate, P.Efe(Student), 2015
- DEMİRÖRS O., ROADMap: a novel method for role-based and decentralized process modeling, Postgraduate, A.Mert(Student), 2015
- DEMİRÖRS O., A Methodology for utilizing descriptive process models for execution, Doctorate, M.Filiz(Student), 2014
- DEMİRÖRS O., A Transformation approach from eEPC to S-BPM models, Postgraduate, B.Çakar(Student), 2014
- DEMİRÖRS O., GSPM: a generic software process assessment tool, Postgraduate, O.Raşıit(Student), 2014
- DEMİRÖRS O., Demirörs O., PL-FSM: an aproach and a tool for the application of functional size measurement in software product line environments, Postgraduate, Ö.Eren(Student), 2014
- DEMİRÖRS O., Agilitymod: a software agility reference model for agility assessment, Doctorate, Ö.Özcan(Student), 2014
- DEMİRÖRS O., UPRM : a unified business process modeling methodology / , Doctorate, B.Aysolmaz(Student), 2014
- DEMİRÖRS O., A Functional software measurement approach bridging the gap between problem and solution domains, Doctorate, E.Ungan(Student), 2013
- DEMİRÖRS O., An Error prevention model for cosmic functional size measurement method, Postgraduate, M.Salmanoğlu(Student), 2012
- DEMİRÖRS O., An Automated defect detection approach for cosmic functional size measurement, Postgraduate, G.Yılmaz(Student), 2012
- DEMİRÖRS O., Demirörs O., Identifying the effectiveness of a web search engine with Turkish domain dependent impacts and global scale information retrieval improvements, Doctorate, G.Fidan(Student), 2012
- DEMİRÖRS O., A Method to decrease common problems in effort data collection in the software industry, Postgraduate, A.Özkaya(Student), 2012
- DEMİRÖRS O., A Comprehensive model for measuring health care process quality: health care process quality measurement model (HPQMM), Doctorate, Ö.Yıldız(Student), 2012
- DEMİRÖRS O., A Software functionality model for functional size measurement, Doctorate, B.Özkan(Student), 2012
- DEMİRÖRS O., Demirörs O., A method for product defectiveness prediction by using process enactment data in a small

software organization, Postgraduate, D.Sivrioğlu(Student), 2012

DEMİRÖRS O., A Software benchmarking methodology for effort estimation, Postgraduate, M.Nabi(Student), 2012

DEMİRÖRS O., KARAGÖZ N. A., Transforming conceptual models of the mission space into simulation space models, Postgraduate, F.Küçükyavuz(Student), 2011

DEMİRÖRS O., Demirörs O., An automated quality measurement approach for business process models, Postgraduate, Ö.Gürbüz(Student), 2011

DEMİRÖRS O., Efes: an effort estimation methodology, Doctorate, S.Tunalılar(Student), 2011

DEMİRÖRS O., A process modeling based method for identification and implementation of software development tool integration-tuples, Doctorate, K.Alpay(Student), 2010

DEMİRÖRS O., E-cosmic: a business process model based functional size estimation approach, Postgraduate, M.Kaya(Student), 2010

DEMİRÖRS O., An automated tool for quality manual generation from business process models, Postgraduate, E.Aydın(Student), 2010

DEMİRÖRS O., Functional similarity impact on the relation between functional size and software development effort, Postgraduate, Ö.Özcan(Student), 2008

DEMİRÖRS O., A method for decentralized business process modeling, Doctorate, O.Türetken(Student), 2007

DEMİRÖRS O., A study on conceptual modeling in simulation systems : an extended methodology for KAMA, Postgraduate, B.E(Student), 2007

DEMİRÖRS O., A pre-enactment model for measuring process quality, Doctorate, A.Selçuk(Student), 2006

DEMİRÖRS O., A unification model and tool support for software functional size measurement methods, Postgraduate, P.Efe(Student), 2006

DEMİRÖRS O., Pommex: a tool for quantitative project management, Postgraduate, C.Bozkurt(Student), 2005

DEMİRÖRS O., An architectural dimensions based software functional size measurement method, Doctorate, Ç.Gencil(Student), 2005

DEMİRÖRS O., Business process modelling based computer-aided software functional requirements generation, Postgraduate, M.Onur(Student), 2004

DEMİRÖRS O., An Automated tool for requirements verification, Postgraduate, Y.Tekin(Student), 2004

DEMİRÖRS O., Dspptool: a tool to support distributed software project planning, Postgraduate, S.Yılmaz(Student), 2004

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DEMİRÖRS O., Application of statistical process control to software development processes via control charts, Postgraduate, K.Umut(Student), 2003

DEMİRÖRS O., A comparison of object oriented size evaluation techniques, Postgraduate, H.Sinem(Student), 2003

DEMİRÖRS O., A cots-software requirements elicitation method from business process models, Postgraduate, E.Aslan(Student), 2002

DEMİRÖRS O., A Measurement tool for computer aided education teams, Postgraduate, E.Taner(Student), 2001

DEMİRÖRS O., Demirörs O., Improving individual software engineering skills: a tool to support personal software process, Postgraduate, N.Alpay(Student), 2001

DEMİRÖRS O., Automating function point analysis in object oriented analysis and design, Postgraduate, T.Özdamar(Student), 2001

DEMİRÖRS O., Demirörs O., A Proxy architecture for software design change implementation, Postgraduate, S.Turan(Student), 2001

DEMİRÖRS O., Software process improvement initiation approaches: a case study in an immature organization, Postgraduate, A.Selçuk(Student), 2001

DEMİRÖRS O., Demirörs O., A Methodology for verification and validation of models and simulations: acquirers' viewpoint, Postgraduate, O.Orhan(Student), 2001

DEMİRÖRS O., Intermediate: an integration tool for measurement data collection, Postgraduate, E.Sevil(Student), 2001

DEMİRÖRS O., Using information and communication technologies as an organizational change enabler: a case study in criminal police laboratories of Turkey, Postgraduate, B.K.(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An exploratory case study using events as a software size measure**
Hacaloglu T., Demirors O.
Information Technology and Management, vol.24, no.3, pp.293-312, 2023 (SSCI)
- II. **A method for integrated business process modeling and ontology development**
COŞKUNÇAY A., DEMİRÖRS O.
BUSINESS PROCESS MANAGEMENT JOURNAL, vol.28, pp.606-629, 2022 (SSCI)
- III. **Process ontology development using natural language processing: a multiple case study**
Gurbuz O., Rabhi F., Demirors O.
BUSINESS PROCESS MANAGEMENT JOURNAL, vol.25, no.6, pp.1208-1227, 2019 (SSCI)
- IV. **Model based process assessment for public financial and physical resource management processes**
Gokalp E., Demirors O.
COMPUTER STANDARDS & INTERFACES, vol.54, pp.186-193, 2017 (SCI-Expanded)
- V. **Do staged maturity models result in organization-wide continuous process improvement? Insight from employees**
Uskarci A., Demirors O.
COMPUTER STANDARDS & INTERFACES, vol.52, pp.25-40, 2017 (SCI-Expanded)
- VI. **Cross-factor analysis of software engineering practices versus practitioner demographics: An exploratory study in Turkey**
Garousi V., Coskuncay A., Demirors O., YAZICI A.
JOURNAL OF SYSTEMS AND SOFTWARE, vol.111, pp.49-73, 2016 (SCI-Expanded)
- VII. **A survey of software engineering practices in Turkey**
Garousi V., Coskuncay A., Betin-Can A., DEMİRORS O.
JOURNAL OF SYSTEMS AND SOFTWARE, vol.108, pp.148-177, 2015 (SCI-Expanded)
- VIII. **Software Development in Turkey**
Demirors O., Coskuncay A.
IT PROFESSIONAL, vol.17, no.3, pp.10-13, 2015 (SCI-Expanded)
- IX. **A process capability based assessment model for software workforce in emergent software organizations**
TANRIÖVER Ö. Ö., Demirors O.
COMPUTER STANDARDS & INTERFACES, vol.37, pp.29-40, 2015 (SCI-Expanded)
- X. **Measuring healthcare process quality: Applications in public hospitals in Turkey**
Yildiz O., Demirors O.
INFORMATICS FOR HEALTH & SOCIAL CARE, vol.38, no.2, pp.132-149, 2013 (SCI-Expanded)
- XI. **Apply Quantitative Management Now**
TARHAN A., Demirors O.
IEEE SOFTWARE, vol.29, no.3, pp.77-85, 2012 (SCI-Expanded)
- XII. **Investigating the effect of variations in the test development process: a case from a safety-critical system**
TARHAN A., Demirors O.
SOFTWARE QUALITY JOURNAL, vol.19, no.4, pp.615-642, 2011 (SCI-Expanded)
- XIII. **Plural: A decentralized business process modeling method**
Turetken O., Demirors O.
INFORMATION & MANAGEMENT, vol.48, no.6, pp.235-247, 2011 (SCI-Expanded)
- XIV. **AN EXPLORATION OF FUNCTIONAL SIZE BASED EFFORT ESTIMATION MODELS**
Tunalilar S., Demirors O.
INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE ENGINEERING, vol.21, no.3, pp.413-429, 2011 (SCI-Expanded)
- XV. **An experimental study on the conversion between IFPUG and COSMIC functional size measurement units**

Cuadrado-Gallego J. J., Buglione L., Dominguez-Alda M. J., Fernandez de Sevilla M., Antonio Gutierrez de Mesa J., Demirors O.

INFORMATION AND SOFTWARE TECHNOLOGY, vol.52, no.3, pp.347-357, 2010 (SCI-Expanded)

XVI. Conceptual Association of Functional Size Measurement Methods

Demirors O., Gencel C.

IEEE SOFTWARE, vol.26, no.3, pp.71-78, 2009 (SCI-Expanded)

XVII. Functional size measurement revisited

Gencel C., Demirors O.

ACM TRANSACTIONS ON SOFTWARE ENGINEERING AND METHODOLOGY, vol.17, no.3, 2008 (SCI-Expanded)

XVIII. Utilization of statistical process control (SPC) in emergent software organizations: Pitfalls and suggestions

Sargut K. U., Demirors O.

SOFTWARE QUALITY JOURNAL, vol.14, no.2, pp.135-157, 2006 (SCI-Expanded)

XIX. Investigating suitability of software process and metrics for statistical process control

Tarhan A., Demirors O.

SOFTWARE PROCESS IMPROVEMENT, PROCEEDINGS, vol.4257, pp.88-99, 2006 (SCI-Expanded)

XX. Using software quality characteristics to measure business process quality

Guceglioglu A., Demirors O.

BUSINESS PROCESS MANAGEMENT, PROCEEDINGS, vol.3649, pp.374-379, 2005 (SCI-Expanded)

XXI. A process based model for measuring process quality attributes

Guceglioglu A., Demirors O.

SOFTWARE PROCESS IMPROVEMENT, PROCEEDINGS, vol.3792, pp.118-129, 2005 (SCI-Expanded)

XXII. A comparison of size estimation techniques applied early in the life cycle

Demirors O., Gencel C.

SOFTWARE PROCESS IMPROVEMENT, PROCEEDINGS, vol.3281, pp.184-194, 2004 (SCI-Expanded)

Articles Published in Other Journals

I. Turkish national software engineering symposium

Yeşilada Y., BETİN CAN A., Demirörs O.

CEUR Workshop Proceedings, vol.1221, 2014 (Scopus)

II. Government process capability model: An exploratory case study

GÖKALP E., Demirörs O.

Communications in Computer and Information Science, vol.477, pp.94-105, 2014 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. A size measurement method for Enterprise Applications

Ömüral N. K., Demirörs O.

Joint Conference of the 31st International Workshop on Software Measurement and 16th International Conference on Software Process and Product Measurement, IWSM-MENSURA 2022, İzmir, Turkey, 28 - 30 September 2022, vol.3272

II. Assessment of Agility in Software Organizations with a Web-Based Agility Assessment Tool

Adali O. E., Ozcan-Top Ö., Demirors O.

43rd Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Vienna, Austria, 30 August - 01 September 2017, pp.88-95

III. A Comparison of Process Ontology Discovery from Organizational Guidelines in Two Different Languages

Gurbuz O., Demirors O.

43rd Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Vienna, Austria, 30 August - 01 September 2017, pp.363-370

- IV. **Effort estimation for ERP projects - a systematic review**
Omural N. K., Demirors O.
43rd Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Vienna, Austria, 30 August - 01 September 2017, pp.96-103
- V. **Agile Maturity Self-Assessment Surveys: A Case Study**
YÜRÜM O. R., Demirors O.
43rd Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Vienna, Austria, 30 August - 01 September 2017, pp.392-399
- VI. **Characterizing the development and usage of diagrams in embedded software systems**
Akdur D., Demirors O., Garousi V.
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- VII. **From Organizational Guidelines to Business Process Models: Exploratory Case for an Ontology Based Methodology**
Gurbuz O., Demirors O.
IEEE 19th Conference on Business Informatics CBI, Vol 1, Thessaloniki, Greece, 24 - 26 July 2017, vol.1, pp.320-329
- VIII. **Cross-factor Analysis of Software Modeling Practices Versus Practitioner Demographics in the Embedded Software Industry**
Akdur D., Garousi V., Demirors O.
6th Mediterranean Conference on Embedded Computing (MECO), Bar, MONTENEGRO, 11 - 15 June 2017, pp.7-11
- IX. **On the Seven Misconceptions about Functional Size Measurement**
ÖZKAN B., Demirors O.
Joint Conference of 26th International Workshop on Software Measurement (IWSM) / 11th International Conference on Software Process and Product Measurement (Mensura), Berlin, Germany, 5 - 07 October 2016, pp.45-52
- X. **Developing Process Definition for Financial and Physical Resource Management Process in Government Domain**
Gokalp E., Demirors O.
16th International Conference on Software Process Improvement and Capability Determination (SPICE), Dublin, Ireland, 9 - 10 June 2016, vol.609, pp.169-180
- XI. **Evaluation of Agility Assessment Tools: A Multiple Case Study**
Adali O. E., Ozcan-Top Ö., Demirors O.
16th International Conference on Software Process Improvement and Capability Determination (SPICE), Dublin, Ireland, 9 - 10 June 2016, vol.609, pp.135-149
- XII. **Towards a Process Capability Assessment Model for Government Domain**
Gokalp E., Demirors O.
16th International Conference on Software Process Improvement and Capability Determination (SPICE), Dublin, Ireland, 9 - 10 June 2016, vol.609, pp.210-224
- XIII. **PL FSM: An Approach and a Tool for the Application of FSM in SPL Environments**
Eren O., ÖZKAN B., Demirors O.
41st Euromicro Conference on Software Engineering and Advanced Applications 2015, Funchal, Portugal, 26 - 28 August 2015, pp.119-126
- XIV. **Causes of Continuity and Participation Problems in Process Improvement with Staged Maturity Models**
Uskarci A., Demirors O.
15th International Conference on Software Process Improvement and Capability dEtermination (SPICE), Gothenburg, Sweden, 16 - 17 June 2015, vol.526, pp.177-187
- XV. **A Reference Model for Software Agility Assessment: AgilityMod**
Ozcan-Top Ö., Demirors O.

- 15th International Conference on Software Process Improvement and Capability dEtermination (SPICE), Gothenburg, Sweden, 16 - 17 June 2015, vol.526, pp.145-158
- XVI. **Proposing an ISO/IEC 15504 Based Process Improvement Method for the Government Domain**
Gokalp E., Demirors O.
15th International Conference on Software Process Improvement and Capability dEtermination (SPICE), Gothenburg, Sweden, 16 - 17 June 2015, vol.526, pp.100-113
- XVII. **ISO/IEC 15504 standardinin devlet kurumları için uyarlanması**
GÖKALP E., Demirörs O.
9th Turkish National Software Engineering Symposium, UYMS 2015, İzmir, Turkey, 9 - 11 September 2015, vol.1483, pp.606-618
- XVIII. **Comparison of Functional Size Based Estimation and Story Points, Based on Effort Estimation Effectiveness in SCRUM Projects**
Ugan E., Cizmeli N., Demirors O.
40th Euromicro Conference on Software Engineering and Advanced Applications (SEAA), Verona, Italy, 27 - 29 August 2014, pp.77-80
- XIX. **Unified Process Modeling with UPRON Tool**
Aysolmaz B., Demirors O.
26th International Conference on Advanced Information Systems Engineering (CAiSE), Thessaloniki, Greece, 16 - 20 June 2014, vol.204, pp.250-266
- XX. **Kamu kurumları için süreç yetenek modeli geliştirilmesi**
GÖKALP E., Demirörs O.
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- XXI. **Türkiye deki Yazılım Test Uygulamaları Anketi**
GAROUSİ V., COŞKUNÇAY A., BETİN CAN A., DEMİRORS O.
ULUSAL YAZILIM MÜHENDİSLİĞİ SEMPOZYUMU, İzmir, Turkey, 25 - 27 September 2013
- XXII. **An Effort Prediction Model Based on BPM Measures for Process Automation**
Aysolmaz B., İren D., DEMİRÖRS O.
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- XXIII. **EFES: An Effort Estimation Methodology**
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- XXIV. **Exploration of an Error Prevention Model for COSMIC Functional Size Measurement Method**
Salmanoglu M., Demirors O.
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- XXV. **A Case Study on Measuring Process Quality: Lessons Learned**
Dikici A., Turetken O., Demirors O.
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- XXVI. **Measuring Health Care Process Quality with Software Quality Measures**
Yildiz O., Demirors O.
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- XXVII. **A Case Study on Employee Perceptions of Organization Wide Continuous Process Improvement Activities**
Uskarci A., Demirors O.

- 12th International Conference on Software Process Improvement and Capability Determination (SPICE 2012), Palma, Spain, 29 - 31 May 2012, vol.290, pp.26-37
- XXVIII. **E-Cosmic: A Business Process Model Based Functional Size Estimation Approach**
Kaya M., Demirors O.
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- XXIX. **A Detailed Software Process Improvement Methodology: BG-SPI**
Aysolmaz B., Demirors O.
18th European Conference on Systems, Software and Services Process Improvement, EuroSPI 2011, Roskilde, Denmark, 27 - 29 June 2011, vol.172, pp.97-99
- XXX. **Assessment of Software Process and Metrics to Support Quantitative Understanding: Experience from an Undefined Task Management Process**
TARHAN A., Demirors O.
11th International Conference on Software Process Improvement and Capability Determination, Dublin, Ireland, 30 May - 01 June 2011, vol.155, pp.108-110
- XXXI. **A Clustering Based Functional Similarity Measurement Approach**
Usgurlu B., Ozcan O., Ungan E., Demirors O.
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- XXXII. **Formalization Studies in Functional Size Measurement: How Do They Help?**
Ozkan B., Demirors O.
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- XXXIII. **Making Functional Similarity Count for More Reliable Effort Prediction Models**
Top O. O., Demirors O., Turetken O.
24th International Symposium on Computer and Information Sciences, Güzelyurt, Cyprus (Kktc), 14 - 16 September 2009, pp.503-505
- XXXIV. **Adopting Software Quality Measures for Healthcare Processes**
Yildiz O., Demirors O.
22nd International Congress of the European-Federation-for-Medical-Informatics on Medical Informatics Europe (MIE), Sarajevo, Bosnia And Herzegovina, 30 August - 02 September 2009, vol.150, pp.394-398
- XXXV. **Applicability of Process Discovery Algorithms for Software Organizations**
Akman B., Demirors O.
35th Euromicro Conference on Software Engineering and Advanced Applications, Patras, Greece, 27 - 29 August 2009, pp.195-197
- XXXVI. **An Experimental Study on the Reliability of COSMIC Measurement Results**
Ungan E., Demirors O., Top Ö., Ozkan B.
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- XXXVII. **Reliability of COSMIC Functional Size Measurement Results: A Multiple Case Study on Industry Cases**
Top Ö., Demirors O., Ozkan B.
35th Euromicro Conference on Software Engineering and Advanced Applications, Patras, Greece, 27 - 29 August 2009, pp.327-334
- XXXVIII. **Evaluation of the Effect of Functional Similarities on Development Effort**
Top O. O., Tunalilar S., Demirors O.
34th EUROMICRO Conference on Software Engineering and Advanced Applications, Parma, Italy, 3 - 05 September 2008, pp.419-421
- XXXIX. **Software Functional Size: For Cost Estimation and More**
Ozkan B., Turetken O., Demirors O.
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pp.59-69

- XL. **The effect of entity generalization on software functional sizing B A case study**
Turetken O., Demirors O., Gencel C., Top Ö., Ozkan B.
9th International Conference on Product-Focused Software Process Improvement, Frascati, Italy, 23 - 25 June 2008, vol.5089, pp.105-108
- XLI. **The Impact of Individual Assumptions on Functional Size Measurement**
Turetken O., Top Ö., Ozkan B., Demirors O.
Joint Meeting of the International Workshop on Software Measurement (IWSM)/MetriKon/Mensura 2008, Munich, Germany, 18 - 20 November 2008, vol.5338, pp.155-169
- XLII. **Assessment of software process and metrics to support quantitative understanding**
TARHAN A., DEMİRÖRS O.
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- XLIII. **Acquiring innovative software systems: Experiences from the field**
Demirors O., Karagoz N. A., Gencel C.
33rd EUROMICRO Conference on Software Engineering and Advanced Applications, Lübeck, Germany, 27 - 31 August 2007, pp.393-395
- XLIV. **An approach for decentralized process modeling**
Turetken O., Demirors O.
International Conference on Software Process, Minnesota, United States Of America, 19 - 20 May 2007, vol.4470, pp.195-197
- XLV. **Utilizing business process models for requirements elicitation**
Demirors O., Gencel C., Tarhan A.
29th EUROMICRO Conference, BELEK ANTALYA, Turkey, 1 - 06 September 2003, pp.409-412
- XLVI. **Application of poor quality indicator model in an emergent software organization**
Demirors O., Guceglioglu A.
27th Euromicro Conference, Warszawa, Poland, 4 - 06 September 2001, pp.225-232
- XLVII. **Using cost of software quality for a process improvement initiative**
Demirors O., Yildiz O., Guceglioglu A.
26th Euromicro Conference, Maastricht, Netherlands, 5 - 07 September 2000
- XLVIII. **Tailoring ISO/IEC 12207 for instructional software development**
Demirors O., Demirors E., Tarhan A., Yildiz A.
26th Euromicro Conference, Maastricht, Netherlands, 5 - 07 September 2000

Supported Projects

DEMİRÖRS O., Ugan E., Ugan E., Project Supported by Higher Education Institutions, Yazılım Tasarım Ölçümleri İçin Bir Durum Çalışması, 2012 - 2013

DEMİRÖRS O., Project Supported by Higher Education Institutions, Yazılım Projeleri İçin İş Gücü Kestirim Modeli Oluşturulması, 2009 - 2009

Metrics

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